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Hydrologic Data for Experimental Agricultural Watersheds in the United States 1968

Miscellaneous Publication No. 1330

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Agricultural Research Service
U.S. DEPARTMENT OF AGRICULTURE
In Cooperation With
State Agricultural Experiment Stations

**Hydrologic Data
for
Experimental Agricultural
Watersheds
in the United States
1968**

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PREFACE

This publication presents annual basic data on monthly precipitation and runoff; annual maximum discharges and volumes of runoff; daily precipitation and discharge amounts, and daily air temperature for some areas; and selected runoff events, with associated data on rainfall, land use, and antecedent conditions for agricultural watersheds where research was in progress during 1968. It is a continuation of processing and releasing hydrologic data of general interest collected cooperatively with other agencies.

Throughout the watershed studies the State agricultural experiment stations have collaborated in selecting, planning, and conducting these studies. In several studies the U.S. Geological Survey and State and local agencies, such as State water boards and highway departments of local drainage and conservation districts, have assisted in the work. The classification and correlation of soils and evaluation

of other watershed characteristics in the descriptions have been based mostly on field surveys by the U.S. Soil Conservation Service.

These data were collected originally for specific research objectives, which are still in progress or have been attained. In addition, they can serve many other purposes. This publication provides information for other government agencies, university staff members, graduate students, private engineers, and others who need detailed, factual information concerning agricultural watersheds. High-quality hydrologic data such as these have historic value in addition to providing a basis for research and design and evaluation of projects and programs for conservation and development of the Nation's water resources.

Although the data on which this publication is based were collected in 1968, the findings are still valid and are used for further research on agricultural watersheds.

CONTENTS

	Page
Publications of earlier data	1
Form of data presentation	2
Continuing watersheds	2
New watersheds	13
Watershed descriptions	13
Standard symbols for tabular data	16
Personnel responsible for compilation	16
Additional publications by location	16
United States index map and related data	19
Location of experimental agricultural watersheds of the Agricultural Research Service (1968) by land resource regions and major land resource areas of the United States	20
Legend for land resource regions and major land resource areas (of the 48 conterminous States)	21
Watershed data by location number and decimal paging [10.001-1 to 75.004-3, a total of 519 data sheets]	23
Table 1.—Description of references 4-12 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"	2
Table 2.—Index to information on experimental agricultural watersheds in refer- ences 1-12	3
Table 3.—Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1968 and included in this publication	22
Table 4.—Watersheds, listed by State and locality, where observations were dis- continued during 1967	22

The decimal system of paging is used to index the watershed data. Pages are numbered at the bottom according to location and watershed number, and the data for each watershed are given on one or more pages. For example, page 10.1-1 is location 10 (Watkinsville, Ga.), Watershed 1 (W-1 at Watkinsville), and page 1 of the data for that watershed. For convenience in finding items listed in table 3, pages are also numbered consecutively at the top.

Table 3 is a list of continuing or new watersheds by State, locality, assigned location number, and land resource area, with number of watershed units and selected runoff events reported for 1968 in this publication. Table 4 includes similar data on discontinued watersheds.

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968

This is the 12th publication in the Agricultural Research Service (ARS) series on hydrologic data. The first three are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 11 publications, previously published records and general descriptions can be readily found and consulted.

This publication contains selected hydrologic data for 1968 and earlier years for some watersheds. It includes data on monthly precipitation and runoff, annual maximum discharge and volume of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 174 watersheds; daily precipitation for 153 watersheds; mean daily discharge for 157 watersheds; daily maximum and minimum air temperatures for 16 watersheds; and detailed information on 1 or more selected typical storm events for 116 watersheds.

Information on selected storm events includes (1) tabular data for antecedent rainfall and runoff; (2) data on rainfall intensity and runoff for the event and on accumulated depth of rainfall and runoff; (3) description of watershed conditions at the time of the selected events; and (4) plottings of runoff hydrographs and rainfall histograms.

For newly established watersheds, descriptions of watershed physical characteristics, instrumentation, graphs, maps, land management, and recommended area of application of the results are also given. Revised or updated maps of some watersheds for which data have previously been published are included.

Previous publications in this series resulted from the cooperative efforts of several ARS watershed research projects and the editing staff in Beltsville, Md. Hydrologic data were summarized, arranged according to standardized formats, recorded on preprinted data

sheets, and submitted to the editing office for final review, assemblage, and publication.

The Hydrologic Data Laboratory designed and developed a computer-oriented system to produce camera copy sheets for this publication. Hydrologic data submitted by several research projects in digitized form and recorded on computer media are accepted by the system. The required data analyses and summaries are performed and the tables and plottings are provided within and by the system. Narrative information is incorporated into the system as upper and lower case alphameric data using computer-compatible word-processing equipment. The format of the previous eight publications has been retained where practical in this publication, which is the first of the computer-produced references.

PUBLICATIONS OF EARLIER DATA

Historical hydrologic data on the experimental agricultural watersheds, both terminated and active, have been previously summarized in three looseleaf publications (reprints in bound volumes) by ARS. They are described in the following summaries. Beginning with the hydrologic data for 1956 through 1967, the types of data previously published separately in these three volumes were combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 1226, and 1262. These eight publications are listed in table 1 as references 4-11. These reference numbers have been assigned to simplify citations to them in this and future publications. All 11 publications have been recorded on 16-mm microfilm. Copies can be made available for the cost of the film processing.

Reference 1.—MONTHLY PRECIPITATION AND RUNOFF FOR SMALL AGRICULTURAL WATERSHEDS IN THE UNITED STATES. Soil and Water Conservation Research Branch, 691 pages, 1957. (Includes physical descriptions and land use of

TABLE 1.—*Description of references 4–12 of “Hydrologic Data for Experimental Agricultural Watersheds in the United States”*

Reference	For calendar year (19—)	Miscel- laneous Publi- cation No.	Year pub- lished (19—)	Total pages	Number of watersheds for which indicated data are given				Daily pre- cipitation, discharge, and temperature (max.-min.)
					Monthly preci- pitation and runoff	Annual maxi- mum discharge and runoff for selected time intervals	Selected runoff events	New water- sheds	
4.....	56–59	945	63	672	157	142	134	45	---
5.....	60–61	994	65	496	160	145	133	24	---
6.....	62	1070	68	447	164	155	136	13	50
7.....	63	1164	70	465	168	156	142	9	57
8.....	64	1194	71	460	163	163	143	8	57
9.....	65	1216	72	568	189	178	122	22	60
10.....	66	1226	72	399	198	185	106	11	60
11.....	67	1262	73	634	216	204	174	26	62
12.....	68	1330	76	546	174	174	116	1	174

334 experimental agricultural watersheds at 60 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1955.)

Reference 2.—ANNUAL MAXIMUM FLOWS FROM SMALL AGRICULTURAL WATERSHEDS IN THE UNITED STATES. Soil and Water Conservation Research Division, 330 pages, 1958. (Includes records from 322 watersheds at 59 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1957.)

Reference 3.—SELECTED RUNOFF EVENTS FOR SMALL AGRICULTURAL WATERSHEDS IN THE UNITED STATES. Soil and Water Conservation Research Division, 374 pages, 1960. (Includes a sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, watershed conditions for each event, including the 30-day antecedent rainfall and runoff, and tabular as well as graphic data on each storm.)

Copies of these three publications have been furnished to the Soil Conservation Service and other Federal, State, and local government agencies. They have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals when requested, and similar foreign institutions and individuals when requested.

Table 2 lists in which of the 12 references data are included for each watershed. This information also has been recorded on 16-mm microfilm.

Table 3 summarizes where data for each watershed can be found in this 12th publication.

Table 4 lists the watershed units where studies were discontinued in 1967.

FORM OF DATA PRESENTATION

The data in this publication are presented for each watershed in the following order: (1) Watershed description, if not previously published; (2) monthly precipitation and runoff; (3) average monthly precipitation and runoff for period of record; (4) annual maximum flows; (5) daily temperature extremes, daily precipitation, and discharge for some watersheds; (6) selected runoff events; (7) graphs of selected runoff events; and (8) watershed maps, if not previously published or if revised.

Continuing Watersheds

For current watersheds for which the descriptive information has been published in references 1 and 4–11, the tabular data begin at the top of the first page. On each page at the top center is a sequential page number and the decimal paging system is shown at the bottom.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{1/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
01001	Arnot Forest	NY	W-1	17.9	41	47		01	02										
01002	Arnot Forest	NY	W-4	17.9	41	47		01	02										
02002	Cohocton	NY	W-II	13.8	38	45		01	02	03									
02003	Cohocton	NY	W-III	24.2	38	45		01	02	03									
04001	Freehold	NJ	W-I	17.5	38	43		01	02	03									
04002	Freehold	NJ	W-II	32.9	38	55		01	02	03									
04003	Freehold	NJ	W-III	51.8	38	43		01	02										
05001	College Park	MD	W-1	8.22	39	54		01	02	03									
05002	College Park	MD	W-2	7.44	39	54		01	02	03									
05003	College Park	MD	W-3	5.02	39	55		01	02										
05004	College Park	MD	W-4	5.03	39	55		01	02										
05005	College Park	MD	W-5	4.07	39	54		01	02										
05006	College Park	MD	W-6	3.53	40	62	06	01	02	03	04	05	06						
05007	College Park	MD	W-7	3.52	40	62	06	01	02	03	04	05	06						
05008	College Park	MD	W-8	2.43	40	55		01	02	03									
05009	College Park	MD	W-9	12.05	40	55		01	02	03									
05010	College Park	MD	W-10	3.04	43	54		01	02										
06001	Hagerstown	MD	W-I	46.3	38	47		01	02										
06002	Hagerstown	MD	W-II	80.8	38	47		01	02	03									
07001	Auburn	AL	W-I	27.0	45	47		01	02										
08001	Vero Beach	FL	W-1	49,915.	51	73	06	01	02	03	04	05	06	07	08	09	10	11	
08002	Vero Beach	FL	W-2	63,100.	55		06	01	02		04	05	06	07	08	09	10	11	
08003	Vero Beach	FL	W-3	10,000.	55		06	01	02		04	05	06	07	08	09	10	11	
08004	Vero Beach	FL	W-4	3,968.	59	73							06	07	08	09	10	11	
09001	Americus	GA	W-I	22.8	38	43		01	02										
09002	Americus	GA	W-II	42.8	38	42		01	02										
09003	Americus	GA	W-III	32.0	38	42		01	02										
09004	Americus	GA	W-IV	59.2	38	43		01	02	03									
10001	Watkinsville	GA	W-1	19.2	39		07	01	02		04	05	06	07	08			12	
11001	High Point	NC	W.F.D.R.	21,100.	23	53		01	02	03	04								
11002	High Point	NC	M.C.	10,300.	34	41		01	02		04								
11003	High Point	NC	U.R.	7,230.	34	41		01	02		04								
12001	Statesville	NC	C-8	5.12	33	38		01	02										
12002	Statesville	NC	W-23	6.00	33	38		01	02										
13001	Blacksburg	VA	W-II	5.44	39	51		01	02										
13002	Blacksburg	VA	W-III	19.3	39	67		01	02	03	04	05	06	07	08	09	10	11	
13003	Blacksburg	VA	W-IV	3.49	51	67		01	02		04	05	06	07	08	09	10	11	
13004	Blacksburg	VA	W-V	6.08	52	67		01	02		04	05	06	07	08	09	10	11	
13005	Blacksburg	VA	W-VI	7.70	51	67		01	02		04	05	06	07	08	09	10	11	
13006	Blacksburg	VA	T.C.	3,054.	57	69					04	05	06	07	08	09	10	11	12
13007	Blacksburg	VA	C.C.	786.	57							05	06	07	08	09	10	11	12
13008	Blacksburg	VA	B.C.	893.	57		08				04	05	06	07	08	09	10	11	12
13009	Blacksburg	VA	P.C.	182.	58	69	08					05	06	07	08	09	10	11	12
13010	Blacksburg	VA	L.W.C.	1,471.	58	74	08					05	06	07	08	09	10	11	12
13011	Blacksburg	VA	R.R.B.	555.	58		08					05	06	07	08	09	10	11	12
13012	Blacksburg	VA	P.M.B.	192.	58	69	08					05	06	07	08	09	10	11	12
13013	Blacksburg	VA	C.R.	2,023.	59	69	10					05	06	07	08	09	10	11	12
13014	Blacksburg	VA	F.C.	389.	60	69	08					05	06	07	08	09	10	11	12
13015	Blacksburg	VA	C.B.	1,058.	60		08					05	06	07	08	09	10	11	12
14001	Chatham	VA	W-I	13.3	38	48		01	02										
14002	Chatham	VA	W-II	16.1	38	48		01	02										
14003	Chatham	VA	W-III	17.1	38	48		01	02	03									
15001	Staunton	VA	W-I	390.	48	55		01	02	03									
15002	Staunton	VA	W-II	2,430.	48	55		01	02										
15003	Staunton	VA	W-III	6,144.	48	55		01	02		04								

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{1/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
16006	Klingerstown	PA	WE-38	1,773.	68														12
17001	Edwardsville	IL	W-1	27.22	38	55		01	02	03									
17002	Edwardsville	IL	W-2	49.95	38	55		01	02										
17003	Edwardsville	IL	W-3	12.55	38	42		01	02										
17004	Edwardsville	IL	W-4	289.8	38	55		01	02	03									
18001	Elmwood	IL	WB-1	1.28	45	46		01											
18002	Elmwood	IL	WB-2	2.28	45	46		01											
18003	Elmwood	IL	WB-3	2.61	45	46		01											
18004	Elmwood	IL	WB-4	2.77	45	46		01											
18005	Elmwood	IL	WB-5	1.93	45	46		01											
18006	Elmwood	IL	WB-6	2.41	45	46		01											
18007	Elmwood	IL	WT-1	2.02	45	46		01											
18008	Elmwood	IL	WT-2	1.88	45	46		01											
18009	Elmwood	IL	WT-3	2.40	45	46		01											
18010	Elmwood	IL	WT-4	2.06	45	46		01											
18011	Elmwood	IL	WT-5	2.76	45	46		01											
18012	Elmwood	IL	WT-6	5.35	45	46		01											
19001	Lafayette	IN	W-1	2.55	40	53		01	02										
19002	Lafayette	IN	W-2	2.23	40	53		01	02										
19003	Lafayette	IN	W-4	2.01	40	53		01	02										
19004	Lafayette	IN	W-5	2.87	40	53		01	02	03									
19005	Lafayette	IN	W-6	2.79	40	53		01	02	03									
19006	Lafayette	IN	W-7	1.96	40	53		01	02										
19007	Lafayette	IN	W-8	1.96	40	53		01	02										
19008	Lafayette	IN	W-10	2.06	40	53		01	02										
19009	Lafayette	IN	W-11	2.05	40	53		01	02										
19010	Lafayette	IN	W-12	3.37	40	53		01	02										
19011	Lafayette	IN	W-13	3.02	40	53		01	02										
19012	Lafayette	IN	W-14	2.85	40	53		01	02										
19013	Lafayette	IN	W-15	3.59	40	53		01	02										
19014	Lafayette	IN	W-18	3.24	40	53		01	02										
19015	Lafayette	IN	W-20	2.64	40	52		01	02										
19016	Lafayette	IN	W-25	3.52	40	52		01	02										
19017	Lafayette	IN	W-31	1.64	40	51		01	02										
19018	Lafayette	IN	W-32	1.83	40	51		01	02										
19019	Lafayette	IN	W-33	3.44	40	51		01	02										
19020	Lafayette	IN	W-34	3.17	40	51		01	02										
20001	Clarinda	IA	W-V	3.25	32	42		01	02										
20002	Clarinda	IA	W-W	1.97	34	42		01	02										
20003	Clarinda	IA	W-X	1.97	34	42		01	02										
20004	Clarinda	IA	W-Y	3.25	32	42		01	02										
20005	Clarinda	IA	W-Z	3.12	32	42		01	02										
21001	Iowa City	IA		1,926.	24		07	01	02	03	04	05	06	07	08	09	10	11	12
22001	Shenandoah	IA	No. 1	128,000.	34	40		01	02										
22002	Shenandoah	IA	No. 2	67,200.	34	40		01	02										
23001	East Lansing	MI	A	1.98	41	59		01	02		04								
23002	East Lansing	MI	B	1.35	41	59		01	02		04								
23003	East Lansing	MI	W	1.65	41	59		01	02		04								
24001	Bethany	MO	Pa-A	2.03	34	42		01	02										
24002	Bethany	MO	Pa-B	5.56	32	42		01	02										
24003	Bethany	MO	Pa-C	1.97	37	42		01	02										
24004	Bethany	MO	D-1	7.51	34	42		01	02										
24005	Bethany	MO	D-2	8.03	34	42		01	02										
24006	Bethany	MO	D-3	4.48	32	42		01	02	03									
24007	Bethany	MO	1-58	2.12	33	42		01	02										
24008	Bethany	MO	IJ-1	2.13	33	42		01	02										

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
25001	McCredie	MO	S.R.W.	153.	41		07	01	02		04	05	06	07	08	09	10	11	12
25002	McCredie	MO	No. 2	44.3	51	63	07	01	02		04	05	06	07					
26001	Coshocton	OH	102	1.26	37	46	06	01	02		04	05	06	07	08	09	10	11	12
26002	Coshocton	OH	104	1.33	37	46		01	02		04								
26003	Coshocton	OH	129	2.71	38	72	06	01	02		04	05	06	07	08	09	10	11	12
26004	Coshocton	OH	135	2.69	38	70	06	01	02		04	05	06	07	08	09	10	11	12
26005	Coshocton	OH	130	1.63	38	72	06	01	02		04	05	06	07	08	09	10	11	12
26006	Coshocton	OH	107	2.59	38	46		01	02		04								
26007	Coshocton	OH	131	2.21	38	70	06	01	02		04	05	06	07	08	09	10	11	12
26008	Coshocton	OH	132	0.59	48	70	06	01	02		04	05	06	07	08	09	10	11	12
26009	Coshocton	OH	134	0.92	38	47		01	02		04								
26010	Coshocton	OH	123	1.37	39		06	01	02		04	05	06	07	08	09	10	11	12
26011	Coshocton	OH	115	1.61	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26012	Coshocton	OH	127	1.65	49	71	06	01	02		04	05	06	07	08	09	10	11	12
26013	Coshocton	OH	109	1.69	38		06	01	02		04	05	06	07	08	09	10	11	12
26014	Coshocton	OH	103	0.65	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26015	Coshocton	OH	110	1.27	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26016	Coshocton	OH	113	1.45	39	73	06	01	02		04	05	06	07	08	09	10	11	12
26017	Coshocton	OH	118	1.96	40	73	06	01	02		04	05	06	07	08	09	10	11	12
26018	Coshocton	OH	111	1.18	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26019	Coshocton	OH	121	1.42	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26020	Coshocton	OH	106	1.56	39	72	06	01	02		04	05	06	07	08	09	10	11	12
26021	Coshocton	OH	188	2.05	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26022	Coshocton	OH	124	2.07	39	47		01	02		04								
26023	Coshocton	OH	185	7.40	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26024	Coshocton	OH	187	7.20	41	71	06	01	02		04	05	06	07	08	09	10	11	12
26025	Coshocton	OH	192	7.59	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26026	Coshocton	OH	172	43.6	39	72	06	01	02		04	05	06	07	08	09	10	11	
26027	Coshocton	OH	169	29.0	40	71	06	01	02		04	05	06	07	08	09	10	11	12
26028	Coshocton	OH	177	75.6	40	71	06	01	02		04	05	06	07	08	09	10	11	12
26029	Coshocton	OH	183	74.2	38	63	06	01	02	03	04	05	06	07					
26030	Coshocton	OH	196	303.	37		06	01	02	03	04	05	06	07	08	09	10	11	12
26031	Coshocton	OH	10	122.	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26032	Coshocton	OH	5	349.	40	71	06	01	02		04	05	06	07	08	09	10	11	12
26033	Coshocton	OH	92	920.	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26034	Coshocton	OH	94	1,520.	39	71	06	01	02		04	05	06	07	08	09	10	11	12
26035	Coshocton	OH	95	2,570.	39	72	06	01	02		04	05	06	07	08	09	10	11	12
26036	Coshocton	OH	97	4,580.	37	71	06	01	02	03	04	05	06	07	08	09	10	11	12
26037	Coshocton	OH	994	17,500.	36	71	06	01	02		04	05	06	07	08	09	10	11	
26038	Coshocton	OH	174	52.8	60		06					05	06	07	08	09	10	11	12
26039	Coshocton	OH	194	187.	60		06					05	06	07	08	09	10	11	12
26040	Coshocton	OH	182	69.6	64	71											10	11	12
27001	Hamilton	OH	W-1	187.	38	44		01	02	03									
27002	Hamilton	OH	W-II	16.2	38	44		01	02										
27003	Hamilton	OH	W-III	28.8	38	44		01	02										
27004	Hamilton	OH	W-IV	20.3	38	44		01	02										
28001	Zanesville	OH	C.W.	2.55	34	45		01	02										
28002	Zanesville	OH	P.W.	3.57	34	45		01	02										
28003	Zanesville	OH	W.W.	2.23	34	45		01	02										
29001	Colby	WI	W-1	345.	49	66		01	02	03	04	05	06	07	08	09	10		
30001	Coon Valley	WI	No. 1	49,400.	34	40		01	02										
30002	Coon Valley	WI	No. 2	49,344.	34	40		01	02										
31001	Fennimore	WI	W-1	330.	38	67	07	01	02	03	04	05	06	07	08	09	10	11	
31002	Fennimore	WI	W-2	22.8	38	67	07	01	02	03	04	05	06	07	08	09	10	11	
31003	Fennimore	WI	W-3	52.5	38	67	07	01	02		04	05	06	07	08	09	10	11	
31004	Fennimore	WI	W-4	171.	38	67	07	01	02	03	04	05	06	07	08	09	10	11	

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{1/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
32001	La Crosse	WI	U.P.W.	2.41	33	55		01	02										
32002	La Crosse	WI	U.C.W.	2.24	33	46		01	02										
32003	La Crosse	WI	C.W.	2.71	37	63	07	01	02		04	05	06	07					
32004	La Crosse	WI	C.W.A.	3.06	52	63	07	01	02		04	05	06	07					
32005	La Crosse	WI	E-3	1.01	33	42		01	02										
32006	La Crosse	WI	A-4	2.21	33	54		01	02										
33001	Bentonville	AR	W-1	10.03	38	43		01	02										
33002	Bentonville	AR	W-2	9.34	38	47		01	02										
33003	Bentonville	AR	W-3	14.25	38	47		01	02										
33004	Bentonville	AR	W-4	24.	39	47		01	02										
33005	Bentonville	AR	W-5	19.4	38	47		01	02	03									
33006	Bentonville	AR	W-6	10.75	39	47		01	02										
34001	Cherokee	OK	W-1	2.23	42	60		01	02		04								
34002	Cherokee	OK	W-2	4.82	42	60		01	02		04								
34003	Cherokee	OK	W-3	8.30	42	60		01	02		04								
34004	Cherokee	OK	W-4	4.35	42	60		01	02		04								
34005	Cherokee	OK	W-5	7.85	42	60		01	02		04								
34006	Cherokee	OK	W-6	1.75	42	60		01	02		04								
34007	Cherokee	OK	W-7	1.99	42	60		01	02		04								
34008	Cherokee	OK	W-8	4.72	41	60		01	02		04								
34009	Cherokee	OK	W-9	8.50	42	60		01	02	03	04								
34010	Cherokee	OK	W-10	1.68	60	67						05	06	07	08	09	10	11	
34011	Cherokee	OK	W-11	2.12	60	67						05	06	07	08	09	10	11	
34012	Cherokee	OK	W-12	1.68	60	67						05	06	07	08	09	10	11	
34013	Cherokee	OK	W-13	1.99	60	67						05	06	07	08	09	10	11	
34014	Cherokee	OK	W-14	2.16	60	67						05	06	07	08	09	10	11	
34015	Cherokee	OK	W-15	2.15	60	67						05	06	07	08	09	10	11	
35001	Guthrie	OK	W-1	33.40	32	53		01	02										
35002	Guthrie	OK	W-2	3.21	31	51		01	02										
35003	Guthrie	OK	W-3	3.13	30	51		01	02										
35004	Guthrie	OK	W-4	5.62	31	53		01	02										
35005	Guthrie	OK	W-5	5.28	31	47		01	02										
35006	Guthrie	OK	W-I	2.50	37	53		01	02										
35007	Guthrie	OK	W-II	5.09	42	55		01	02										
35008	Guthrie	OK	W-III	9.09	42	53		01	02										
35009	Guthrie	OK	W-IV	13.4	42	53		01	02										
35010	Guthrie	OK	W-V	15.7	42	53		01	02										
35011	Guthrie	OK	W-VI	94.8	42	55		01	02	03									
36001	Muskogee	OK	W-I	14.5	39	47		01	02										
36002	Muskogee	OK	W-II	65.4	39	45		01	02										
36003	Muskogee	OK	W-IV	24.9	38	47		01	02										
37001	Stillwater	OK	W-1	16.7	51	72	05	01	02		04	05	06	07	08	09	10	11	12
37002	Stillwater	OK	W-3	92.	51	72		01	02	03	04	05	06	07	08	09	10	11	12
37003	Stillwater	OK	W-4	206.	51	72		01	02		04	05	06	07	08	09	10	11	12
38001	Garland	TX	W-I	25.	38	47		01	02										
38002	Garland	TX	W-III	10.4	38	47		01	02										
38003	Garland	TX	W-IV	16.2	39	47		01	02										
39001	Spur	TX	W-1	11.53	27	45		01	02										
39002	Spur	TX	W-2	9.39	27	45		01	02										
39003	Spur	TX	W-3	11.71	27	44		01	02										
39004	Spur	TX	W-5	5.81	27	45		01	02										
39005	Spur	TX	W-6	6.04	27	45		01	02										
39006	Spur	TX	W-11	8.70	30	45		01	02										
39007	Spur	TX	W-12	8.41	30	45		01	02										
39008	Spur	TX	W-14	8.53	30	45		01	02										
39009	Spur	TX	W-15	8.50	30	45		01	02										

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No. 3/	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
40001	Tyler	TX	W-2	9.15	43	44		01	02	03									
40002	Tyler	TX	W-3	7.94	32	42		01	02										
40003	Tyler	TX	W-4	5.75	31	42		01	02										
40004	Tyler	TX	W-5	1.73	32	42		01	02										
41001	Vega	TX	W-1	129.	38	43		01	02										
41002	Vega	TX	W-2	95.9	38	43		01	02	03									
42001	Riesel	TX	A	42.	38	43		01	02										
42002	Riesel	TX	C	579.	38		08	01	02		04	05	06	07	08	09	10	11	12
42003	Riesel	TX	D	1,110.	37		08	01	02	03	04	05	06	07	08	09	10	11	12
42004	Riesel	TX	G	4,380.	38		08	01	02		04	05	06	07	08	09	10	11	12
42005	Riesel	TX	J	5,860.	37	43		01	02	03									
42006	Riesel	TX	W-1	176.	37		08	01	02	03	04	05	06	07	08	09	10	11	12
42007	Riesel	TX	W-2	130.	37		08	01	02		04	05	06	07	08	09	10	11	12
42008	Riesel	TX	W-6	42.3	39		08	01	02		04	05	06	07	08	09	10	11	12
42009	Riesel	TX	W-8	40.4	38	43		01	02										
42010	Riesel	TX	W-10	19.7	38		08	01	02		04	05	06	07	08	09	10	11	12
42011	Riesel	TX	Y	309.	37		08	01	02		04	05	06	07	08	09	10	11	12
42012	Riesel	TX	Y-2	132.	39		08	01	02		04	05	06	07	08	09	10	11	12
42013	Riesel	TX	Y-4	79.9	39		08	01	02		04	05	06	07	08	09	10	11	12
42014	Riesel	TX	Y-6	20.9	39		08	01	02		04	05	06	07	08	09	10	11	12
42015	Riesel	TX	Y-7	40.	39		08	01	02		04	05	06	07	08	09	10	11	12
42016	Riesel	TX	Y-8	20.8	39		08	01	02		04	05	06	07	08	09	10	11	12
42017	Riesel	TX	Y-10	21.0	38		08	01	02		04	05	06	07	08	09	10	11	12
42018	Riesel	TX	SW-2	2.7	38	43		01	02										
42019	Riesel	TX	SW-3	3.09	39	43		01	02										
42020	Riesel	TX	SW-5	3.09	38	43		01	02										
42021	Riesel	TX	SW-6	3.04	38	43		01	02										
42022	Riesel	TX	SW-7	3.15	38	43		01	02										
42023	Riesel	TX	SW-11	3.23	38			01	02										
42024	Riesel	TX	SW-12	2.97	38		08	01	02		04	05	06	07	08	09	10	11	12
42025	Riesel	TX	SW-13	3.19	38	43		01	02										
42026	Riesel	TX	SW-14	3.02	39	43		01	02										
42027	Riesel	TX	SW-16	3.17	37	43		01	02										
42028	Riesel	TX	SW-17	2.99	39		08	01	02		04	05	06	07	08	09	10	11	12
42029	Riesel	TX	SW-18	3.04	38	43		01	02										
42030	Riesel	TX	Z	310.	39	43		01	02										
42031	Riesel	TX	P-1	.24	38		08				05	06	07	08	09	10	11	12	
42032	Riesel	TX	P-2	.24	38		08				05	06	07	08	09	10	11	12	
42033	Riesel	TX	P-3	.24	38		08				05	06	07	08	09	10	11	12	
42034	Riesel	TX	P-4	.24	38		08				05	06	07	08	09	10	11	12	
43001	Hays	KS	6L	2.85	34	38		01	02										
43002	Hays	KS	AG	1.61	32	47		01	02										
44001	Hastings	NE	W-3	481.	38	67	06	01	02	03	04	05	06	07	08	09	10	11	
44002	Hastings	NE	W-5	411.	39	61		01	02		04	05							
44003	Hastings	NE	W-8	2,086.	39	67	06	01	02	03	04	05	06	07	08	09	10	11	
44004	Hastings	NE	W-11	3,490.	39	67	06	01	02		04	05	06	07	08	09	10	11	
44005	Hastings	NE	1-H	3.62	39	67	06	01	02		04	05	06	07	08	09	10	11	
44006	Hastings	NE	2-H	3.40	39	67	06	01	02		04	05	06	07	08	09	10	11	
44007	Hastings	NE	3-H	3.95	39	67	06	01	02		04	05	06	07	08	09	10	11	
44008	Hastings	NE	4-H	3.84	39	67	06	01	02		04	05	06	07	08	09	10	11	
44009	Hastings	NE	5-H	3.93	39	67	06	01	02		04	05	06	07	08	09	10	11	
44010	Hastings	NE	6-H	4.16	39	67	06	01	02		04	05	06	07	08	09	10	11	
44011	Hastings	NE	7-H	4.15	39	67	06	01	02		04	05	06	07	08	09	10	11	
44012	Hastings	NE	8-H	3.93	39	67	06	01	02		04	05	06	07	08	09	10	11	
44013	Hastings	NE	9-H	3.78	39	54		01	02										
44014	Hastings	NE	10-H	3.98	39	54		01	02										
44015	Hastings	NE	11-H	3.85	39	54		01	02										

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
44016	Hastings	NE	12-H	3.66	39	54		01	02										
44017	Hastings	NE	13-H	3.41	39	54		01	02										
44018	Hastings	NE	14-H	3.35	39	54		01	02										
44019	Hastings	NE	15-H	3.62	39	54		01	02										
44020	Hastings	NE	16-H	3.57	39	54		01	02										
44021	Hastings	NE	17-H	3.96	39	54		01	02										
44022	Hastings	NE	18-H	3.74	39	67	06	01	02		04	05	06	07	08	09	10	11	
44023	Hastings	NE	19-H	4.10	41	54		01	02										
44024	Hastings	NE	20-H	4.05	41	54		01	02										
44025	Hastings	NE	21-H	3.94	41	54		01	02										
44026	Hastings	NE	22-H	3.99	41	67	06	01	02				06	07	08	09	10	11	
44027	Hastings	NE	23-H	4.06	41	67		01	02				06	07	08	09	10	11	
44028	Hastings	NE	24-H	4.21	41	54		01	02										
44029	Hastings	NE	25-H	2.24	63	67								07	08	09	10	11	
45001	Safford	AZ	W-I	519.	39		07	01	02		04	05	06	07	08	09	10	11	
45002	Safford	AZ	W-II	682.	39		08	01	02	03	04	05	06		08	09	10	11	
45003	Safford	AZ	W-IV	764.	39			01	02		04	05	06		08	09	10	11	
45004	Safford	AZ	W-V	723.	39		07	01	02		04	05	06	07	08	09	10	11	
46001	Colorado Spr.	CO	W-1	10.6	38	46		01	02										
46002	Colorado Spr.	CO	W-2	39.7	38	46		01	02										
46003	Colorado Spr.	CO	W-3	35.4	38	46		01	02										
46004	Colorado Spr.	CO	W-4	35.6	38	46		01	02	03									
47001	Albuquerque	NM	W-I	97.2	39		08	01	02	03	04	05	06		08	09	10	11	12
47002	Albuquerque	NM	W-II	40.5	39		07	01	02		04	05	06	07	08	09	10	11	12
47003	Albuquerque	NM	W-III	155.	39		07	01	02		04	05	06	07	08	09	10	11	12
48001	Mexican Spr.	NM	W-1	187.	38	42		01	02										
48002	Mexican Spr.	NM	W-2	610.	37	42		01	02	03									
48003	Mexican Spr.	NM	W-3	1,325.	38	42		01	02										
48004	Mexican Spr.	NM	W-6	5,550.	37	42		01	02	03									
48005	Mexican Spr.	NM	W-7	8,495.	38	42		01	02										
48006	Mexican Spr.	NM	W-8	20,910.	37	42		01	02	03									
48007	Mexican Spr.	NM	W-10	17,220.	37	42		01	02										
48008	Mexican Spr.	NM	W-11	46,080.	37	39		01	02	03									
48009	Mexican Spr.	NM	W-12	2,550.	37	39		01	02										
48010	Mexican Spr.	NM	W-13	3,360.	37	39		01	02										
48011	Mexican Spr.	NM	W-14	3,560.	37	38		01	02										
48012	Mexican Spr.	NM	W-15	4,740.	37	39		01	02										
49001	Santa Fe	NM	W-I	141.	39	48		01	02	03									
49002	Santa Fe	NM	W-II	790.	39	48		01	02										
49003	Santa Fe	NM	W-III	51.6	39	48		01	02										
50001	Placerville	CA	W-1	41.	35	44		01	02	03									
51001	Santa Paula	CA	W-1	413.	38	42		01	02										
51002	Santa Paula	CA	W-3	106.	38	42		01	02										
51003	Santa Paula	CA	W-4	44.4	38	42		01	02										
51004	Santa Paula	CA	W-5	55.1	38	42		01	02										
51005	Santa Paula	CA	W-6	163.	38	42		01	02										
51006	Santa Paula	CA	H.B.R.	735.	36	42		01	02										
51007	Santa Paula	CA	L.A.	1,607.	34	40		01	02										
51008	Santa Paula	CA	H.P.R.	1,832.	34	43		01	02										
51009	Santa Paula	CA	H.A.B.	5,939.	34	37		01	02										
52001	Sebastopol	CA	W-1	83.	36	43		01	02	03									
52002	Sebastopol	CA	W-2	56.	36	40		01	02										
53001	Vacaville	CA	W-I	40.	37	42		01	02										
54001	Watsonville	CA	W-1	16.8				01	02										
54002	Watsonville	CA	W-2	18.5				01	02										
54003	Watsonville	CA	W-3	27.4	38	42		01	02	03									
54004	Watsonville	CA	W-4	10.1	38	42		01	02										

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water- shed id. cd.	Study location		Water- shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
55001	Emmett	ID	W-1	219.4	38	41		01	02										
55002	Emmett	ID	W-2	69.4	38	41		01	02	03									
56001	Moscow	ID	W-1	146.8	37	42		01	02	03									
56002	Moscow	ID	W-2	177.9	37	42		01	02	03									
57001	Newberg	OR	W-1	13.2	38	42		01	02	03									
57002	Newberg	OR	W-2	21.6	38	42		01	02										
57003	Newberg	OR	W-3	12.8	38	42		01	02	03									
57004	Newberg	OR	W-4	6.2	38	42		01	02	03									
58001	Dayton	WA	W-1	19.2	39	42		01	02										
59001	Pullman	WA	S.F.P.R.	51,900.	34	40		01	02										
59002	Pullman	WA	M.F.C.	17,600.	34	40		01	02										
59003	Pullman	WA	F.M.C.	46,000.	34	40		01	02										
60001	Pullman	WA	G.S.2	68.2	31	46		01	02	03									
60002	Pullman	WA	G.S.4	2.33	31	38		01	02										
60003	Pullman	WA	G.S.5	14.4	32	46		01	02										
60004	Pullman	WA	G.S.6	15.2	32	46		01	02										
60005	Pullman	WA	G.S.7	16,700.	32	38		01	02										
60006	Pullman	WA	G.S.8	762.	34	41		01	02	03									
60007	Pullman	WA	G.S.9	879.	41	46		01	02										
60008	Pullman	WA	G.S.10	4,430.	41	47		01	02	03									
61001	Monticello	IL	IA	82.	49	59		01	02	03	04								
61002	Monticello	IL	IB	45.5	49	59		01	02	03	04								
62001	Oxford	MS	W-4	2,000.	57		06			03	04	05	06	07	08	09	10	11	12
62002	Oxford	MS	W-5	1,130.	57		06			03	04	05	06	07	08	09	10	11	12
62003	Oxford	MS	W-10	5,530.	57		06			03	04	05	06	07	08	09	10	11	12
62004	Oxford	MS	W-12	22,800.	57		06				04	05	06	07	08	09	10	11	12
62005	Oxford	MS	W-17	32,100.	57		06				04	05	06	07	08	09	10	11	12
62006	Oxford	MS	W-19	243.	57	64	06				04	05	06	07	08				
62007	Oxford	MS	W-24	511.	57		06				04	05	06	07	08	09	10	11	12
62008	Oxford	MS	W-28	1,080.	57		06				04	05	06	07	08	09	10	11	12
62009	Oxford	MS	W-30	113.	57	59					04								
62010	Oxford	MS	W-32	20,000.	57		06				04	05	06	07	08	09	10	11	12
62011	Oxford	MS	W-34	75,000.	57		06			03	04	05	06	07	08	09	10	11	12
62012	Oxford	MS	W-35	7,550.	57		06				04	05	06	07	08	09	10	11	12
62013	Oxford	MS	WC-1	3.88	58		06				04	05	06	07	08	09	10	11	
62014	Oxford	MS	WC-2	1.45	58		06				04	05	06	07	08	09	10	11	
62015	Oxford	MS	WC-3	1.61	58		06				04	05	06	07	08	09	10	11	
62016	Oxford	MS	WP-4	3.01	58	63	06				04	05	06	07					
62017	Oxford	MS	W-17A	3,200.	57		06					05	06	07	08	09	10	11	12
62018	Oxford	MS	W-35A	1,090.	57		06					05	06	07	08	09	10	11	12
63001	Tombstone	AZ	W-1	57.7	54		07				04	05	06	07	08	09	10		12
63002	Tombstone	AZ	W-2	43.9	54		07				04	05	06	07		09	10		12
63003	Tombstone	AZ	W-3	2,220.	54		07				04	05	06	07		09	10	11	12
63004	Tombstone	AZ	W-4	560.	54		07				04	05	06	07	08	09	10	11	12
63005	Tombstone	AZ	W-5	5,510.	54		07				04	05	06	07					
63006	Tombstone	AZ	W-6	23,500.	62							07	08	09	10				12
63007	Tombstone	AZ	6307	3,340.	66								06	07		10	11		
63008	Tombstone	AZ	6308	3,830.	63									08	09	10			12
63011	Tombstone	AZ	6311	2,035.	63									08	09	10			12
63015	Tombstone	AZ	6315	5,912.	65										09	10	11	12	
63103	Tombstone	AZ	63103	8.3	65											10	11	12	
63111	Tombstone	AZ	63111	143.	62											10	11	12	
64001	Santa Rosa	NM	W-1	42,880.	55						04	05	06	07	08	09	10		12

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
65002	Newell	SD	W-2	115.	58	73					04	05	06	07	08	09	10	11	12
65003	Newell	SD	W-3	90.	58	61					04	05							
65004	Newell	SD	W-4	105.	58	61					04	05							
65005	Newell	SD	W-5	46.	58	73					04	05	06	07	08	09	10	11	12
65006	Newell	SD	W-6	30.	58	61					04	05							
65007	Newell	SD	W-7	160.	58	73	05				04	05	06	07	08	09	10	11	12
65008	Newell	SD	W-8	160.	58	61					04	05							
65009	Newell	SD	W-9	815.	58	61					04	05							
65010	Newell	SD	W-10	280.	58	61					04	05							
65011	Newell	SD	W-11	160.	58	61					04	05							
65012	Newell	SD	W-12	90.	58	73	05				04	05	06	07	08	09	10	11	12
65013	Newell	SD	W-13	160.	58	73					04	05	06	07	08	09	10	11	12
65014	Newell	SD	W-14	35.	58	73	05				04	05	06	07	08	09	10	11	12
65015	Newell	SD	W-15	115.	58	73	05				04	05	06	07	08	09	10	11	12
65016	Newell	SD	W-16	13,000.	58	61	05				04	05							
66001	Moorefield	WV	W-1	8.57	58	67	06				04	05	06	07	08	09	10	11	
66002	Moorefield	WV	W-2	10.06	58	67	06				04	05	06	07	08	09	10	11	
66004	Moorefield	WV	W-4	6.32	58	67	06				04	05	06	07	08	09	10	11	
66005	Moorefield	WV	W-5	9.55	58	67	06				04	05	06	07	08	09	10	11	
67001	N. Danville	VT	W-1	10,610.	58						04	05	06	07	08			11	12
67002	N. Danville	VT	W-2	146.	58						04	05	06	07	08			11	12
67003	N. Danville	VT	W-3	2,067.	60							05	06	07	08			11	12
67004	N. Danville	VT	W-4	10,752.	60													11	12
67005	N. Danville	VT	W-5	27,469.	60							05	06	07	08			11	12
68001	Reynolds	ID	W-1	57,700.	63									07	08	09	10	11	12
68002	Reynolds	ID	W-2	8,990.	65											09	10	11	12
68003	Reynolds	ID	W-3	7,846.	66												10	11	12
68004	Reynolds	ID	W-4	13,453.	67													11	12
68011	Reynolds	ID	W-11	306.	67													11	12
68012	Reynolds	ID	W-12	205.	67													11	12
68013	Reynolds	ID	W-13	100.	66												10	11	12
68014	Reynolds	ID	W-14	33.	67													11	12
69001	Chickasha	OK	100	2,340,000.	61								06	07	08	09	10	11	12
69002	Chickasha	OK	200	273,000.	61								06	07	08	09	10	11	12
69004	Chickasha	OK	400	112,910.	61	68							06	07	08	09	10		
69005	Chickasha	OK	500	43,840.	64									08	09	10	11	12	
69006	Chickasha	OK	600	243,050.	63	71								07	08	09	10	11	12
69007	Chickasha	OK	700	50,830.	61								06	07	08	09	10	11	12
69008	Chickasha	OK	611	4,845.	61	74							06	07	08	09			
69009	Chickasha	OK	612	563.	61	74							06	07	08	09	10	11	12
69010	Chickasha	OK	111	16,640.	61								06	07	08	09	10	11	12
69011	Chickasha	OK	131	25,660.	61								06	07	08	09	10	11	12
69012	Chickasha	OK	411	34,180.	61	74							06	07	08	09	10	11	12
69013	Chickasha	OK	511	38,910.	61								06	07	08	09	10	11	12
69014	Chickasha	OK	110	25,150.	63									07	08	09	10	11	12
69015	Chickasha	OK	522	132,930.	63	73								07	08	09	10	11	12
69016	Chickasha	OK	512	22,780.	63									07	08	09	10	11	12
69017	Chickasha	OK	621	21,310.	63	73								07	08	09	10	11	12
69018	Chickasha	OK	121	128,960.	63	74								07	08	09	10	11	12
69019	Chickasha	OK	513	12,314.	65											09	10	11	12
69020	Chickasha	OK	514	7,225.	67													11	
69021	Chickasha	OK	5141	4,064.	67													11	
69022	Chickasha	OK	5142	360.	67	74												11	
69023	Chickasha	OK	5143	485.	67	74												11	
69024	Chickasha	OK	5144	1,456.	67													11	
69025	Chickasha	OK	5145	253.	67													11	
69026	Chickasha	OK	5146	762.	67													11	

For footnotes, see end of table.

Table 2. Index to information on experimental agricultural watersheds in references 1-12^{1/}
(Continued)

Water-shed id. cd.	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference ^{4/}											
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12
69027	Chickasha	OK	311	15,206.	67													11	12
69030	Chickasha	OK	C-1	17.8	65											09	10	11	12
69031	Chickasha	OK	C-2	38.1	62											09	10	11	12
69032	Chickasha	OK	C-3	44.3	65											09	10	11	12
69033	Chickasha	OK	C-4	29.9	65											09	10	11	12
69034	Chickasha	OK	C-5	12.8	65											09	10	11	12
69035	Chickasha	OK	C-6	13.0	65											09	10	11	12
69036	Chickasha	OK	C-7	26.5	65											09	10	11	12
69037	Chickasha	OK	C-8	27.3	65											09	10	11	12
69038	Chickasha	OK	R-1	17.8	62	74										09	10	11	12
69039	Chickasha	OK	R-2	24.1	62	74										09	10	11	12
69040	Chickasha	OK	R-3	25.8	62	74										09	10	11	12
69041	Chickasha	OK	R-4	18.1	62	74										09	10	11	12
69042	Chickasha	OK	R-5	23.7	66												10	11	12
69043	Chickasha	OK	R-6	27.2	66												10	11	12
69044	Chickasha	OK	R-7	19.2	66											10	11	12	
69045	Chickasha	OK	R-8	18.5	66											10	11	12	
70001	Sonora	TX	W-14	30,720.	61	73												11	12
70002	Sonora	TX	S-9	1,774.	61	73												11	12
70003	Sonora	TX	S-10	5,392.	61	73												11	12
70004	Sonora	TX	S-11	10,787.	61	73												11	12
70005	Sonora	TX	S-12	2,801.	61	73												11	12
70006	Sonora	TX	S-13	686.	61	73												11	12
70007	Sonora	TX	W-1	10.2	63													11	12
70008	Sonora	TX	W-2	8.6	65													11	12
70009	Sonora	TX	W-3	6.7	65													11	12
70010	Sonora	TX	W-4	4.5	66													11	12
70011	Sonora	TX	W-5	7.2	66													11	12
70012	Sonora	TX	W-6	6.9	66													11	12
70013	Sonora	TX	W-7	12.2	65	73												11	12
71001	Treynor	IA	W-1	74.5	64									08	09	10	11	12	
71002	Treynor	IA	W-2	82.8	64									08	09	10	11	12	
71003	Treynor	IA	W-3	107.	64									08	09	10	11	12	
71004	Treynor	IA	W-4	150.	64									08	09	10	11	12	
71005	Treynor	IA	W-5	389.	63	74								08	09	10	11	12	
72001	Cottonwood	SD	H-2	2.13	63	73										09	10	11	12
72002	Cottonwood	SD	L-2	2.38	63	73										09	10	11	12
72005	Cottonwood	SD	M-1	2.35	63	73										09	10	11	12
73002	Fort Staunton	NM	7302	32.2	66												10		
75001	Ahoskie	NC	W-A1	36,480.	64	74										09	10	11	12
75002	Ahoskie	NC	W-A2	15,360.	64	74										09	10	11	12
75003	Ahoskie	NC	W-A3	2,368.	64	74										09	10	11	12
75004	Ahoskie	NC	W-A4	1,664.	64	74										09	10	11	12

^{1/} For description of references 1-12, see pp. 1-2 and table 1.^{2/} B = year (19--) record began; E = year (19--) record ended.^{3/} Reference in which additional or revised watershed information has been included.^{4/} For explanation of reference numbers, see pp. 1-2 and table 1.

The geographic location associated with each study, usually a city and State, and the local name and number of the watershed are recorded at the top of the first page for each watershed. This identification is followed by detailed information on the geographic location and the size of the watershed.

In the space to the right of the first table title, MONTHLY PRECIPITATION AND RUNOFF (inches), the location and watershed number (or designation) are given.

In the table for the current *calendar* year, the *precipitation* (P) in inches is given in the monthly columns and the yearly total in the last column, headed *annual*. In the line below, the corresponding *runoff* (Q) in inches is similarly given for each month and the total for the year. For some watersheds, data are included for years previous to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

In the second table, entitled ANNUAL MAXIMUM DISCHARGES (inches per hour) and ANNUAL MAXIMUM VOLUME OF RUNOFF (inches) FOR SELECTED TIME INTERVALS, data are also given for the *calendar* year listed in the first column. Under the *maximum discharge* heading, the date column shows the month and day that the instantaneous peak in inches per hour occurred. In computing this rate, corrections were made, where needed, for any significant pondage above the runoff-measuring device. Under the *maximum volume* heading, the date refers to the month and day on which the interval began; for example, if the interval began August 30 at 2359, the entry in the date column would be 8-30. The depths for 1 hour to 8 days are the annual maximum values recorded, without regard to entire clock hours or days; thus, if the 6-hour interval began at 1332, the interval would end exactly 6 hours later at 1932. The volume given is in inches of average depth over the watershed for each of the seven selected time intervals (1, 2, 6, and 12 hours, and 1, 2, and 8 days). In the last section of the table, the maximum discharges and depths for the various periods are given under MAXIMUM FOR PERIOD OF RECORD.

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) a statement as to the location (publication) where the most recent map may be found; (3) a statement pertaining to the length of precipitation and runoff records; and (4) location of the nearest long-term U.S. Weather Bureau precipitation station together with the record length.

For some watersheds, tables of DAILY AIR TEMPERATURE (maximum and minimum in degrees Fahrenheit), DAILY PRECIPITATION (inches), and MEAN DAILY DISCHARGE (cfs) are next, with explanation of the data in footnotes at the end of each table. The multiplier to convert mean daily discharge in cubic feet per second to inches per day is given as the first note to the mean daily discharge table. Co-operating agencies are located at the bottom of the first page for each watershed just above the index page number.

If no daily tables are given, the tabular data for SELECTED RUNOFF EVENTS begin in the remaining space on the first page and are carried forward on continuation sheets (or pages) until completed. In general, the SELECTED RUNOFF EVENTS were those in which runoff was produced by a relatively uniform rainfall excess of short duration. The information for each event includes tabulation of (1) *antecedent* rainfall and runoff that occurred on the day of the event prior to the beginning of the event; (2) rainfall *intensities* and *accumulated amounts* for the event; (3) runoff *rates* and *accumulated amounts* for the event; and (4) specific *watershed conditions* at the time of the event.

Simple graphs of rainfall and runoff rates are shown for all events on pages following the tabular data. Maps follow the graphs unless previously published in references 3-11 or unless shown herein on the map of another watershed.

In the Notes at the bottom of the first page for runoff events, the multiplier to convert runoff rates in cubic feet per second to inches per hour is given. The notes on continuation pages contain the statement on the multiplier and similar explanations of the data on each page.

New Watersheds

For the watershed installed in recent years and not reported previously, the presentation begins with the watershed description in the upper part of the first page. The explanations and definitions on which the description is based are given in the next section.

The first line, centered at the top of the sheet, indicates the *project location*, which is the nearest city or town, and the number or name of the watershed used locally. The descriptive material is then given under the 12 major topics listed generally down the left side of the sheet: *Location, Area, Slopes, Soils, Erosion, Land Capability, Geology, Surface Drainage, Character of Flow, Instrumentation, Watershed Conditions, and Generally Represents.*

After this description, the tabular data are summarized in the first two tables and notes are included as previously described for Continuing Watersheds. The tabular data for daily air temperature, precipitation, and discharge, if presented, precede the tabular data for SELECTED RUNOFF EVENTS. The rest of the material of the series for the particular watershed follows in the same order as previously indicated.

WATERSHED DESCRIPTIONS

The following definitions and explanations were used in describing watershed location, watershed characteristics, instrumentation, land management, and recommended area of application of the hydrologic data.

LOCATION gives county and State, distance and direction of the runoff gaging station from the nearest city or town, and the major river basin in which it lies. When two or more basins are involved, the tributary or subbasin is mentioned first, followed by the major basin.

AREA of watershed is given in acres if less than 640 acres, and in both acres and square miles (in parentheses) if more than 1 square mile. If areas are revised, additional values are included with notes on date of change.

SLOPES are given in terms of the ranges commonly used in survey work in the locality. The percentages of the watershed lying in each slope class are listed. As an example, 8% is in 0-2% class means that 8 percent of the watershed area has slopes ranging from 0 to 2 percent.

SOILS are described briefly, according to definitions from the U.S. Department of Agriculture SOIL SURVEY MANUAL, Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

Soil texture refers to the relative proportions of the various size groups (or separates) of individual soil grains in a mass of soil. Specifically it refers to the proportions of clay, silt, and sand less than 2 mm in diameter. The various classes of texture in order of increasing percentages of the smaller size groups are (1) sand, (2) loamy sand, (3) sandy loam, (4) loam, (5) silt loam, (6) silt, (7) sandy clay loam, (8) clay loam, (9) silty clay loam, (10) sandy clay, (11) silty clay, and (12) clay. In some of the descriptions the broader classification of coarse, moderately coarse, medium, moderately fine, and fine has been used—the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure *grade*, or the durability of the aggregates when subjected to disturbance, is described as *structureless, weak, moderate, or strong*. For some soils the structureless grade is described as *massive*, if coherent, or *single grain*, if noncoherent. The *size* of the aggregates is reported as *very fine, fine, medium, coarse, or very coarse*. Structure *shape* is given as being *platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb*.

Permeability is the quality of a soil that enables it to transmit water or air. This quality is indicated by the terms *very slow, slow, moderately slow, moderate, moderately rapid, rapid, or very rapid*.

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers and by the height of the water table, either permanent or perched, in relation to the water added to the

soil. *Internal drainage* is described as *none*, *very slow*, *slow*, *medium*, *rapid*, or *very rapid*.

Soils may be grouped into *soil drainage* classes, based on observations and inferences used to obtain classes of *runoff*, *soil permeability*, and *internal soil drainage*. These classes are given in some soils descriptions to identify *internal drainage*. They are *very poorly drained*, *poorly drained*, *imperfectly* or *somewhat poorly drained*, *moderately well drained*, *well drained*, *somewhat excessively drained*, or *excessively drained*.

Erosion conditions on the watershed are described according to the following classification for water and wind erosion, also briefed from Agriculture Handbook 18. The percentage of the watershed in the following erosion classes is given.

Class 1.—The soil has a few rills or places with thin A horizons that give evidence of accelerated erosion, but not to an extent to alter greatly the thickness and character of the A horizon. Except for soils having very thin A horizons (less than 8 inches), the surface soil consists entirely of A horizon throughout nearly all the delineated areas. Up to about 25 percent of the original A horizon, or original plowed layer in soils with thin A horizons, has been removed from most of the area. This class also includes the areas with no erosion.

Class 2.—The soil has been eroded to the extent that ordinary tillage implements reach through the remaining A horizon or well below the depth of the original plowed layer in soils with thin A horizons. Generally the plowed layer consists of a mixture of the original A horizon and the underlying horizons. Mapped areas of eroded soil usually have patches in which the plowed layer consists entirely of the original A horizon, and others in which it consists entirely of underlying horizons. Shallow gullies may be present. Approximately 25 to 75 percent of the original A horizon or surface soil may have been lost from most of the area.

Class 3.—The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included

within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. More than about 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

Class 4.—The land has been eroded until it has an intricate pattern of moderately deep or deep gullies. Soil profiles have been destroyed except in small areas between the gullies. Such land is not useful for crops in its present condition. Reclamation for crop production or for improved pasture is difficult, but may be practicable if other characteristics of the soil are favorable and erosion can be controlled.

Class +.—Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingebiel and Montgomery in U.S. Department of Agriculture LAND-CAPABILITY CLASSIFICATION, Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. The following classes I–IV are suitable for cultivation and other uses, whereas classes V–VIII are not suitable for cultivation.

Class I.—Very good land for cultivation; nearly level and productive; not subject to erosion; needs only ordinary good farming methods.

Class II.—Good land for cultivation; mostly gently sloping; not more than moderately subject to erosion; some land may be rather wet; can be farmed safely with easily applied practices.

Class III.—Moderately good land for cultivation; mostly moderately sloping; some areas too wet or too dry; can be farmed safely with practical conservation measures, carefully applied; usually a combination of two or more measures is needed.

Class IV.—Fairly good land, suitable for occasional cultivation; generally strongly sloping; often shallow or very sandy; often found in dry climate.

Class V.—Land very well suited for grazing or forestry; requires good range or woodland management.

Class VI.—Land well suited for grazing or forestry; steeply sloping land, or stony or shallow soil; eroded, droughty, or wet land; requires careful management.

Class VII.—Land fairly well suited for grazing or forestry; severely limited in use by such factors as very steep slope, shallow or droughty soil, wetness, severe erosion, or excessive salinity; requires very careful management.

Class VIII.—Land not suitable for cultivation, grazing, or forestry; may be useful for wildlife, recreation, or protection of water supplies.

GEOLOGY of the one new watershed is reported herein. The parts of the watershed occupied by various geological formations or series are briefly described, together with strike and dip of the strata, thickness, and relative position, when known. Faults, perched water tables, outcrops, if present, and other details relating to the movement of water within the drainage area or affecting the hydrology of the watershed are described.

SURFACE DRAINAGE refers to the ease with which excess water flows from the watershed area. The length of the principal waterway is the distance from the gaging station to the most remote point on the watershed boundary, measured along the flood plain of the watercourse.

CHARACTER OF FLOW describes the flow of the principal watercourse with respect to permanence and space. The following definitions are from Meinzer's OUTLINE OF GROUND-WATER HYDROLOGY, U.S. Geological Survey Water-Supply Paper 494, published in 1923.

As to permanence, streams may be divided into perennial, intermittent, and ephemeral streams.

A *perennial stream*, or stretch of a stream, flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces usually stand lower than the water table in the localities through which they flow.

Intermittent streams may be divided, with respect to their water source, into spring-fed intermittent streams and surface-fed intermittent streams. They also flow in direct response to precipitation.

A *spring-fed intermittent stream*, or stretch of a stream, flows only at certain times when it receives water from springs. The intermittent

character of streams of this type is generally caused by fluctuations of the water table, whereby the stream channels stand part of the time below and part of the time above the water table. This is the ordinary type of intermittent stream,

A *surface-fed intermittent stream*, or stretch of a stream, flows during protracted periods when it receives water from some surface source, generally the gradual and long-continued melting of snow in a mountainous or other cold tributary area. The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during at least 1 month.

An *ephemeral stream*, or stretch of a stream, flows only in direct response to precipitation. It receives no water from springs and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously for as long as 1 month.

With respect to continuity in space, streams may be divided into continuous and interrupted streams. An *interrupted stream* contains (1) perennial stretches with intervening, intermittent, or ephemeral stretches or (2) intermittent stretches with intervening ephemeral stretches. These two classes of interrupted streams are designated, respectively, *perennial interrupted streams* and *intermittent interrupted streams*. A *continuous stream* does not have interruptions in space. It may be perennial, intermittent, or ephemeral, but it does not habitually have wet and dry stretches.

INSTRUMENTATION describes the type of runoff control or measuring device, number and type of precipitation gages, type of charts used, and snow courses, if employed.

WATERSHED CONDITIONS describes the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a significant relationship to the hydrology of the watershed are mentioned.

GENERALLY REPRESENTS gives the broad area of application for which the data of the specific watershed are recommended. The land resource areas named are those delineated on the map titled "Location of Experimental Agricultural Watersheds of the Agricultural Research Service," on pages 20 and 21. Solid circles show the approximate locations of the continuing or new watersheds; open circles show approximate locations of the discontinued studies. For a few studies the circles indicate the locations of the project headquarters instead of the watershed locations. A larger index map with more detail is included in reference 4.

For some studies there is an apparent contradiction between the watershed location on the maps and the descriptive information under Generally Represents. This is caused by the small scale of maps; it is difficult to show many small local variations in boundaries of the land resources areas. The descriptive statements, instead of the map location, should be the guide to the application of the data.

STANDARD SYMBOLS FOR TABULAR DATA

The following capital letters have been used as standard symbols throughout this publication to designate specific items or meanings:

<i>Symbol</i>	<i>Meaning</i>
E	— value is estimated or partially estimated.
H	— precipitation in form of hail.
L	— precipitation in form of sleet or freezing rain.
M	— mixed precipitation in form of rain, snow, and sleet.
N	— precipitation in form of rain and snow.
P	— monthly or annual precipitation in inches.
Q	— monthly or annual runoff in inches.
RG	— rain gage, generally followed by gage number.
S	— precipitation in form of snow.
STA AV (or AVG)	— station average for period of record.
T	— trace, indicates that the value is not large enough to round to the lowest significant digit. In some arrays a trace value is indicated by all zeros, with more than one zero located to the right of the decimal.

Time-of-day symbols or designations *a*, *p*, *m*, and *n* used in previous publications through

1961 have been discontinued, and military time (0001–2400) has been substituted in publications since then. Unless stated otherwise, time used in tables is eastern, central, mountain, or Pacific standard, whichever applies to the given location.

PERSONNEL RESPONSIBLE FOR COMPILATION

At each research location many individuals have contributed to the planning and establishment of the watersheds and the collection, compilation, and analysis of the data. Some of those who made substantial contributions to the success of the research work behind this report are—

<i>Name</i>	<i>Location</i>
Aurelius P. Barnett	10
James B. Burford, Jan C. Carr, Vernon O. Shanholtz	13
Jan C. Carr, J. B. Urban	16
Larry A. Kramer, Marion Mazzocco, Keith E. Saxton	21, 25, 71
Lloyd L. Harrold	26
Wendell R. Gwinn, William O. Ree, Francis L. Wimberly	37
Clarence W. Richardson, Dee Allen Wright	42
Orfelio Garcia, Leonard J. Lane	45, 47, 63, 64, 73
Gerald R. Bolton, William A. Champion, Robert Darden, Farris E. Dendy, Robert B. Wilson	62
Clayton L. Hanson, Armine R. Kuhlman	65, 72
Rodger DeAngelis, Douglas Grant	67
John M. Clark, Roger L. Engleman, Walter J. Rawls	68
Donn, G. DeCoursey, Monroe A. Hartman, Arlin D. Nicks, Edd D. Rhoades, Russel R. Schoof, Oscar D. Workman	69
Dee Allen Wright	70
Rebecca B. Slack, Thomas K. Woody, Paul Yates	75

ADDITIONAL PUBLICATIONS BY LOCATION

In references 1 and 4–11 (see pp. 1 and 2), citations to other publications that present watershed data and interpretations of results in various journals, bulletins, and periodicals are given at the end of the introductions for many of the locations. Following is a listing of publi-

cations that have resulted from related work through 1968 at the various locations. Several publications pertaining to the overall program of hydrology that do not apply to a specific location are included at the end of this listing under General References.

17. *Edwardsville, Illinois*
HOLTAN, H. N., and MINSHALL, N. E.
1968. PLOT SAMPLES OF WATERSHED HYDROLOGY. U.S. Dept. Agr. ARS 41-133, 206 pp.
26. *Coshocton, Ohio*
BENTZ, W. W., and AMERMAN, C. R.
1968. A TIPPING BUCKET DEVICE FOR MEASURING VERY LOW FLOWS. Agr. Engin. Instrument News Sect. 49 (12): 750-751, illus.
1968. INEXPENSIVE AUTOMATIC COVER FOR RAIN GAGE. U.S. Dept. Agr. ARS 41-146, 6 pp., illus.
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1968. ESTIMATING EVAPOTRANSPIRATION IN A HUMID REGION. U.S. Dept. Agr. Tech. Bul. 1389, 123 pp., illus.
42. *Riesel, Texas*
KNISEL, W. G., JR., BAIRD, R. W., and RICHARDSON, C. W.
1968. LOW-COST WEIR FOR BASE FLOW SEPARATION. Civ. Engin. 38 (12): 60-61, illus.
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1968. RUNOFF HYDROGRAPHS FROM SMALL TEXAS BLACKLANDS WATERSHEDS. U.S. Dept. Agr. ARS 41-143, 24 pp., illus.
44. *Hastings, Nebraska*
DRAGOUN, J. F., and KUHLMAN, A. R.
1968. EFFECT OF PASTURE MANAGEMENT PRACTICES ON RUNOFF. Soil and Water Conserv. Jour. 23 (2): 55-57, illus.
62. *Oxford, Mississippi*
CARTER, C. E., DOTY, C. W., and CARROLL, B. R.
1968. RUNOFF AND EROSION CHARACTERISTICS OF THE BROWN LOAM SOILS. Agr. Engin. 49 (5): 296.
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63. *Tombstone, Arizona*
LIBBY, FRED.
1968. AN AUTOMATIC BEDLOAD SEDIMENT SAMPLER. Agr. Engin., Instrument News Sect. 49 (9): 524-525, illus.
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1968. VARIABILITY OF RAINFALL AFFECTING RUNOFF FROM A SEMIARID RANGELAND WATERSHED. Water Resources Res. 4 (1): 199-203.
64. *Santa Rosa, New Mexico*
DRISSEL, J. C., and OSBORN, H. B.
1968. VARIABILITY OF RAINFALL PRODUCING RUNOFF FROM A SEMIARID RANGELAND WATERSHED, ALAMOGORDO CREEK, NEW MEXICO. Hydrol. Jour. 6 (2): 194-201.
67. *North Danville, Vermont*
JOHNSON, M. L., and ANDERSON, ERIC.
1968. THE COOPERATIVE SNOW HYDROLOGY PROJECT—ESSA WEATHER BUREAU AND ARS SLEEPERS RIVER WATERSHED. East. Snow Conf. Proc. 1968, pp. 13-23, illus.
69. *Chickasha, Oklahoma*
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71. *Treynor, Iowa*
PIEST, R. F., and SPOMER, R. G.
1968. SHEET AND GULLY EROSION IN THE MISSOURI VALLEY LOESSIAL REGION. Amer. Soc. Agr. Engin. Trans. 11 (6): 850-853, illus.
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1968. DISCUSSION: "A SOLUTION TO THE SURFACE RUNOFF PROBLEM." *Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour.* 94 (HY 6): 1578–1582.
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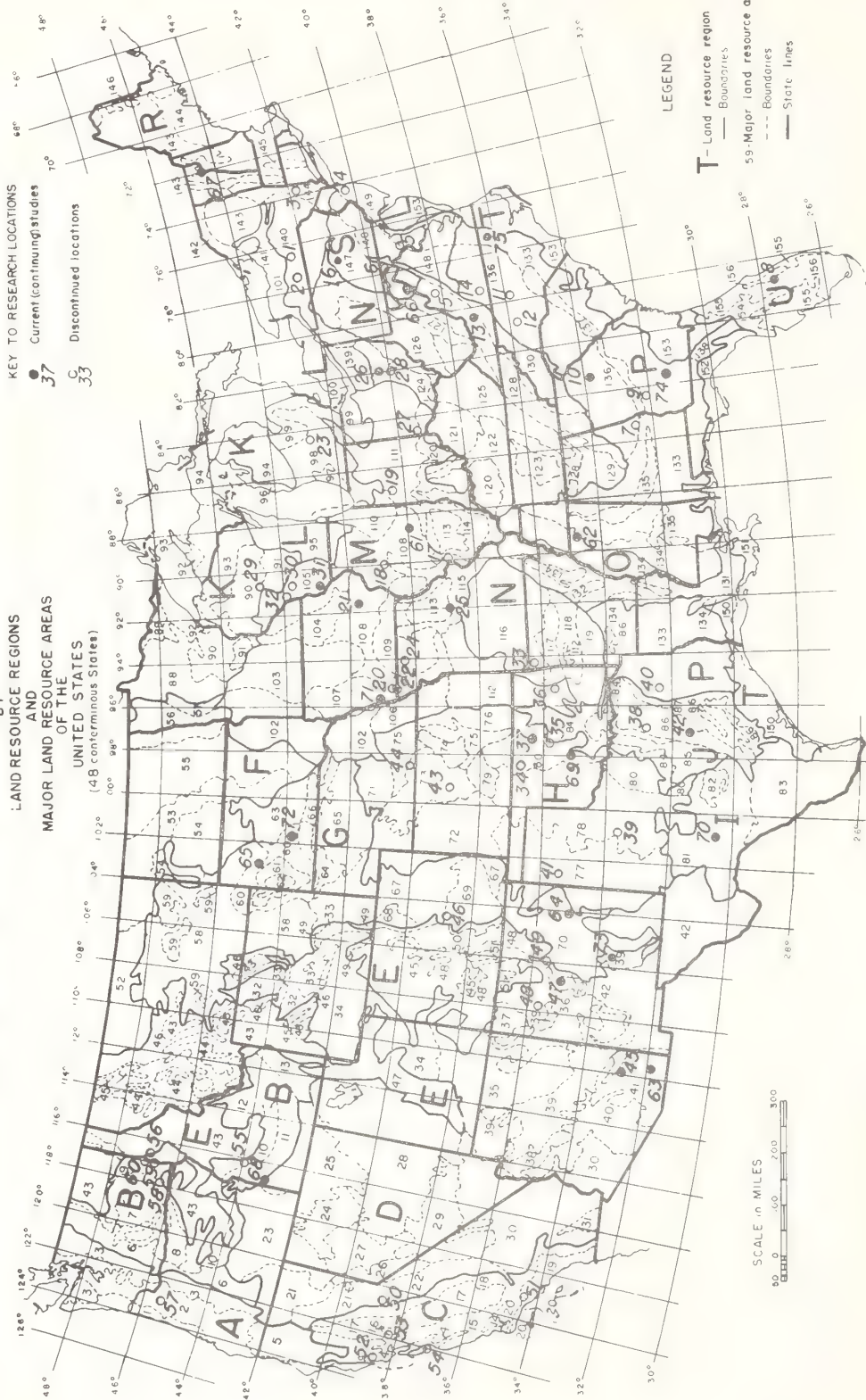
UNITED STATES INDEX MAP AND RELATED DATA

[Pages 20 through 22]

LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE AGRICULTURAL RESEARCH SERVICE (1968)

BY
LAND RESOURCE REGIONS
AND
MAJOR LAND RESOURCE AREAS
OF THE
UNITED STATES
(48 contiguous States)

KEY TO RESEARCH LOCATIONS
● Current (continuing) studies
○ Discontinued locations



LEGEND FOR LAND RESOURCE REGIONS AND MAJOR LAND RESOURCE AREAS (of the 48 conterminous States)

- A** NORTHWESTERN FOREST, FORAGE, AND SPECIALTY CROP REGION
- 1 Northern Pacific Coast Range and Valleys
 - 2 Willamette and Puget Sound Valleys
 - 3 Olympic and Western Slope Cascade Mountains
 - 4 California Coastal Redwood Belt
 - 5 Skagway-Trinity Area
- B** NORTHWESTERN WHEAT AND RANGE REGION
- 6 Eastern Slope Cascade Mountains
 - 7 Columbia Basin
 - 8 Columbia Plateau
 - 9 Palouse and Nez-Perce Prairies
 - 10 Upper Snake River Lava Plains and Hills
 - 11 Snake River Plains
 - 12 Lost River Valleys and Mountains
 - 13 Eastern Idaho Plateaus
- C** CALIFORNIA SUBTROPICAL FRUIT, TRUCK AND SPECIALTY CROP REGION
- 14 Central California Valleys
 - 15 Central California Coast Range
 - 16 California Delta
 - 17 Sacramento and San Joaquin Valleys
 - 18 Sierra Nevada Foothills
 - 19 Southern California Coastal Plain
 - 20 Southern California Mountains
- D** WESTERN RANGE AND IRRIGATED REGION
- 21 Klamath and Shasta Valleys and Basins
 - 22 Sierra Nevada Range
 - 23 Humboldt High Plateau
 - 24 Humboldt Area
 - 25 Owyhee High Plateau
 - 26 Oregon Coast Range and Mountains
 - 27 Fall-Lowlick Area
 - 28 Great Salt Lake Area
 - 29 Southern Nevada Basins and Range
 - 30 Sonoran Basin and Range
 - 31 Imperial Valley
 - 32 Northern Intermountain Desertic Basins
 - 33 Semiarid Rocky Mountains
 - 34 Central Desertic Basins, Mountains and Plateaus
 - 35 Colorado and Green River Plateaus
 - 36 New Mexico and Arizona Plateaus and Mesas
 - 37 San Juan River Valley and Plateaus
 - 38 Hualapai and Cerbat Mountains
 - 39 Arizona and New Mexico Mountains
 - 40 Central Arizona Basin and Range
 - 41 Southeastern Arizona Basin and Range
 - 42 Southern Desertic Basins, Plains and Mountains
- E** ROCKY MOUNTAIN RANGE AND FOREST REGION
- 43 Northern Rocky Mountains
 - 44 Northern Rocky Mountain Valleys
 - 45 Alpine Meadows and Rockland
 - 46 Northern Rocky Mountain Foothills
 - 47 Kaibach and Uinta Mountains
 - 48 Southern Rocky Mountains
 - 49 Snake River Plateau
 - 50 Snake River Valley
 - 51 High Intermountain Valleys

Compiled by Morris E. Austin
Information from SCS, State, and other Offices

- F** NORTHERN GREAT PLAINS SPRING WHEAT REGION
- 52 Brown Glaciated Plain
 - 53 Dark Brown Glaciated Plain
 - 54 Rolling Soft Shale Plain
 - 55 Black Glaciated Plains
 - 56 Red River Valley of the North
 - 57 Western Minnesota Forest-Prairie Transition
- G** WESTERN GREAT PLAINS RANGE AND IRRIGATED REGION
- 58 Northern Rolling High Plains
 - 59 Northern Smooth High Plains
 - 60 Platte River Valley and Badlands
 - 61 Black Hills Foothills
 - 62 Black Hills
 - 63 Rolling Pierre Shale Plains
 - 64 Mixed Sandy and Silty Tableland
 - 65 Nebraska Sand Hills
 - 66 Dakota-Nebraska Eroded Tableland
 - 67 Central High Plains
 - 68 Irrigated Upper Platte River Valley
 - 69 Upper Arkansas Valley Rolling Plains
 - 70 Pecos-Canadian Plains and Valleys
- H** CENTRAL GREAT PLAINS WINTER WHEAT AND RANGE REGION
- 71 Central Nebraska Loess Hills
 - 72 Central High Tableland
 - 73 Rolling Plains and Braks
 - 74 Central Kansas Sandstone Hills
 - 75 Central Loess Plains
 - 76 Bluegrass Hills
 - 77 Southern High Plains
 - 78 Central Rolling Red Plains
 - 79 Great Bend Sand Plains
 - 80 Central Rolling Red Prairies
- I** SOUTHWESTERN PLATEAUS AND PLAINS, RANGE AND COTTON REGION
- 81 Edwards Plateau
 - 82 Texas Central Basin
 - 83 Rio Grande Plain
- J** SOUTHWESTERN PRAIRIES, COTTON, AND FORAGE REGION
- 84 Cross Timbers
 - 85 Grand Prairie
 - 86 Texas Blackland Prairie
 - 87 Texas Claypan Area
- K** NORTHERN LAKE STATES FOREST AND FORAGE REGION
- 88 Northern Minnesota Swamps and Lakes
 - 89 Minnesota Rockland Hills
 - 90 Central Wisconsin and Minnesota Thin Loess and Till
 - 91 Wisconsin and Minnesota Sandy Outwash
 - 92 Superior Lake Plain
 - 93 Northern Michigan and Wisconsin Stony, Sandy, and Rocky Prairies
 - 94 Northern Michigan Sandy Drift
- L** LAKE STATES FRUIT, TRUCK, AND DAIRY REGION
- 95 Southeastern Wisconsin Drift Plain
 - 96 Western Michigan Fruit Belt
 - 97 Southwestern Michigan Fruit and Truck Belt
 - 98 Southern Michigan Drift Plain
 - 99 Erie-Huron Lake Plain
 - 100 Erie Fruit and Truck Area
 - 101 Ontario-Mohawk Plain
- M** CENTRAL FEED GRAINS AND LIVESTOCK REGION
- 102 Loess, Till, and Sandy Prairies
 - 103 Central Iowa and Minnesota Till Prairies
 - 104 Eastern Iowa and Minnesota Till Prairies
- N** EAST AND CENTRAL GENERAL FARMING AND FOREST REGION
- 105 Northern Mississippi Valley Loess Hills
 - 106 Nebraska and Kansas Loess-Drift Hills
 - 107 Iowa and Missouri Deep Loess and Drift
 - 108 Illinois and Iowa Deep Loess and Drift
 - 109 Iowa and Missouri Heavy Till Plain
 - 110 Northern Illinois and Indiana Heavy Till Plain
 - 111 Indiana and Ohio Till Plain
 - 112 Cherokee Prairies
 - 113 Central Claypan Areas
 - 114 Southern Illinois and Indiana Thin Loess and Till Plain
 - 115 Central Mississippi Valley Wooded Shelves
 - 116 Ozark Highland
 - 117 Boston Mountains
 - 118 Arkansas Valley and Ridges
 - 119 Ouachita Mountains
 - 120 Kentucky and Indiana Sandstone and Shale Hills and Valleys
 - 121 Kentucky and Tennessee Plateaus
 - 122 Highland Ridge and Pennyrival
 - 123 Nashville Basin
 - 124 Western Allegheny Plateau
 - 125 Cumberland Plateau and Mountains
 - 126 Central Allegheny Plateau
 - 127 Eastern Allegheny Plateau and Mountains
 - 128 Southern Appalachian Ridges and Valleys
 - 129 Sand Mountain
 - 130 Blue Ridge
- O** MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION
- 131 Southern Mississippi Valley Alluvium
 - 132 Eastern Arkansas Prairies
 - 133 (See P below)
- P** SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION
- 134 (See J Above)
 - 135 Southern Coastal Plain
 - 136 Alabama and Mississippi Valley Silty Uplands
 - 137 Alabama and Mississippi Blackland Prairies
 - 138 Southern Piedmont
 - 139 Carolina and Georgia Sandhills
 - 140 North Central Florida Ridge
- R** NORTHEASTERN FORAGE AND FOREST REGION
- 141 Eastern Ohio Till Plain
 - 142 Glaciated Allegheny Plateau and Catskill Mountains
 - 143 Upper Allegheny Plateau
 - 144 Shawnee-Champplain Plain
 - 145 Northeastern Mountains
 - 146 New England and Eastern New York Upland
 - 147 Connecticut Valley
 - 148 Aroostook Area
- S** NORTHERN ATLANTIC SLOPE TRUCK, FRUIT, AND POULTRY REGION
- 149 Northern Appalachian Ridges and Valleys
 - 150 Northern Piedmont
 - 151 Northern Coastal Plain
- T** ATLANTIC AND GULF COAST LOWLANDS, FOREST AND TRUCK CROP REGION
- 152 Gulf Coast Prairies
 - 153 Gulf Coast Marsh
 - 154 Gulf Coast Flatwoods
 - 155 Atlantic Coast Flatwoods
- U** FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION
- 156 South Central Florida Ridge
 - 157 Southern Florida Flatwoods
 - 158 Florida Everglades and Associated Areas

(continued)

Table 3. Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1968 and included in this publication

State	Locality	Assigned location number	Major land resource area ^{1/}	Watershed units	Events reported	Pages
Arizona.....	Tombstone.....	63	D-41	10	18	281-325
Georgia.....	Watkinsville.....	10	P-136	1	3	24-29
Idaho.....	Reynolds.....	68	D-23, D-25	8	7	360-392
Iowa.....	Iowa City.....	21	M-108	1	0	79-80
	Treynor.....	71	M-107	5	4	508-522
Mississippi....	Oxford.....	62	P-133, P-134	2/12	12	245-260
Missouri.....	McCredie.....	25	M-113	1	1	81-84
New Mexico.....	Albuquerque.....	47	D-42	3	3	234-244
	Santa Rosa.....	64	G-70	1	1	326-330
North Carolina	Anoskie.....	75	P-133	4	4	531-542
Ohio.....	Coshocton.....	26	N-124	3/33	0	85-150
Oklahoma.....	Chickasha.....	69	H-78, H-80, J-84	33	29	393-474
	Stillwater.....	37	H-80	3	4	151-160
Pennsylvania...	Klingerstown.....	16	S-147	1	1	70-78
South Dakota...	Hewell.....	65	G-58, G-59, G-60	7	0	331-344
	Cottonwood.....	72	G-60	3	2	523-530
Texas.....	Riesel (Waco).....	42	J-86	20	20	161-233
	Sonora.....	70	I-81	13	10	475-507
Vermont.....	North Danville.....	67	R-144	5	5	345-359
Virginia.....	Blacksburg.....	13	N-128, S-147, N-130, P-136, S-148	4/10	10	30-69

^{1/} See location map (p.20) and legend (p.21).

^{2/} 3 watersheds (Oxford, Miss.) discontinued Sept. 1968.

^{3/} 1 watershed (Coshocton, Ohio) discontinued Jan. 1968 and 1 not reported for 1968.

^{4/} 4 watersheds (Blacksburg, Va.) discontinued Jan. 1968.

Table 4. Watersheds, listed by State and locality, where observations were discontinued during 1967^{1/}

State	Locality	Major land resource area ^{2/}	Number	Discontinued watershed units	
				Record period (19--)	Assigned location and watershed number
Mississippi.....	Oxford.....	P-133, P-134	3	58-67	62.13-62.15
Nebraska.....	Hastings.....	H-71, H-73, H-74	12	39-67	44.1, 44.3-44.12, 44.22
			3	62-67	44.26, 44.27, 44.29
Ohio.....	Coshocton....	N-124	1	36-67	26.26, 3/ 26.37
Oklahoma.....	Cherokee.....	H-80	6	60-67	34.10-34.15
Virginia.....	Blacksburg...	N-138, S-147	1	40-67	13.2
			3	52-67	13.3 13.4, 13.5
West Virginia...	Moorefield...	N-128, S-147	4	58-67	66.1, 66.2, 66.4, 66.5
Wisconsin.....	Fennimore....	M-105	4	38-67	31.1-31.4

^{1/} For discontinued watershed studies prior to 1967, see tables in previous publications.

^{2/} See location map (p. 20) and legend (p. 21).

^{3/} Data obtained but not reported in 1968.

**WATERSHED DATA BY LOCATION NUMBER
AND
DECIMAL PAGING**

[10.001-1 TO 75.004-3, A TOTAL OF 519 DATA SHEETS]

For location by States and Land Resource Areas
and Regions, see U.S. Index Map, page 20.

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

LOCATION: Oconee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Oconee River Basin.

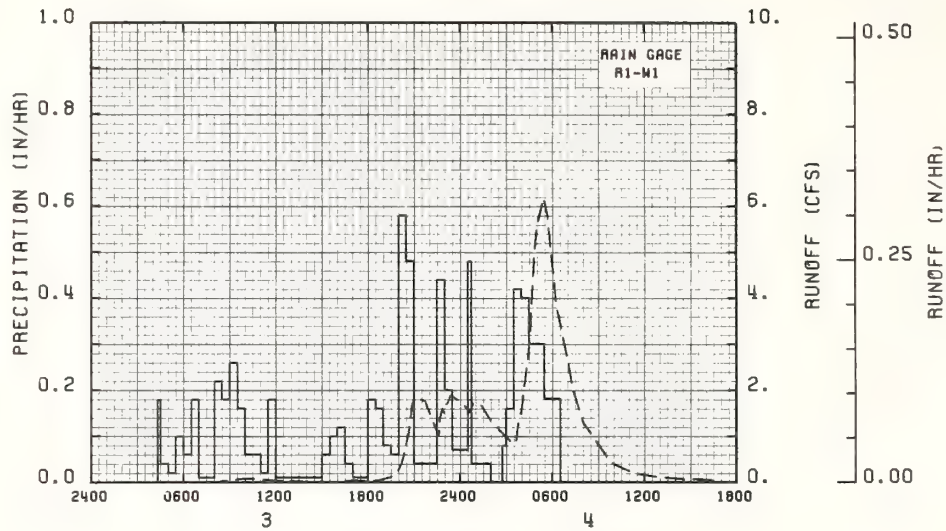
AREA: 19.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1965	P	1.89	4.96	5.59	3.16	1.72	4.65	4.91	0.95	3.06	2.87	1.20	1.18	36.14					
	Q	0.001	0.030	0.080	0.001	0.0	0.001	0.001	0.0	0.001	0.001	0.0	0.0	0.116					
1966	P	6.95	7.45	4.18	4.57	8.78	2.87	1.82	2.13	2.50	3.96	3.55	4.41	53.17					
	Q	0.210	1.210	1.460	0.010	2.110	0.001	0.0	0.0	0.0	0.001	0.0	0.080	5.082					
1967	P	4.27	4.42	2.63	4.03	4.78	6.26	7.34	5.59	1.43	3.68	6.64	6.06	57.13					
	Q	0.100	0.050	0.070	0.010	0.0	0.510	0.020	0.200	0.0	0.001	0.690	0.450	2.101					
1968	P	4.62	1.33	4.18	5.22	4.61	2.64	4.67	3.56	3.33	3.15	5.47	5.04	47.82					
	Q	0.440	0.0	0.140	0.001	0.001	0.0	0.001	0.0	0.001	0.0	0.030	0.060	0.674					
STA AV	P	4.80	4.76	5.91	4.52	3.84	3.84	5.17	3.75	3.00	2.82	3.64	4.58	50.64					
	Q	0.474	0.415	0.638	0.475	0.409	0.242	0.423	0.352	0.026	0.069	0.327	0.253	4.103					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1965		3-17	0.040	3-17	0.010	3-17	0.020	3-17	0.050	3-17	0.050	3-17	0.050	3-17	0.050	3-17	0.050		
1966		5-27	0.670	5-27	0.570	5-27	0.970	5-27	1.600	5-27	1.670	5-27	2.130	5-27	2.170	5-27	2.170		
1967		11-24	0.210	11-24	0.210	11-24	0.380	11-24	0.660	11-24	0.690	11-24	0.690	11-24	0.800	11-24	0.800		
1968		1-10	0.050	1-10	0.060	1-10	0.090	1-10	0.220	1-10	0.220	1-10	0.230	1-9	0.380	1-4	0.380		
MAXIMUMS FOR PERIOD OF RECORD																			
		4-25	2.710	6-26	1.840	6-26	2.540	6-26	3.480	6-26	3.740	6-26	3.780	11-26	5.680	11-22	6.640		
		1945		1963		1963		1963		1963		1963		1948		1948			

NOTES: Watershed conditions: 1965: Excellent coastal bermudagrass pasture; overseeded previous fall with rye. Moderately grazed with beef cattle, Feb.-Mar. (846 cow-days); heavily grazed, June-Nov. (4,624 cow-days). Oversown with rye in November. Fertilized with 500 lb/ac 5-10-15 in May, 79 lb/ac N applied Mar. and Aug. 1966: Excellent coastal bermudagrass cover, with fair to good grass pasture for grazing, with rye in spring. Grazed Mar.-Nov. (6,153 cow-days), with no hay cut. 60 lb/ac N applied in Feb. and Aug., no complete fertilizer applied this year. 1967: Excellent coastal bermudagrass pasture grazed by beef cattle. Grazed April 12-17 and May 1-12 (637 cow-days). Grazed Sept. 22-Oct. 23 (1200 cow-days). Hay harvest: June 23, 1.8 tons/ac; Aug. 8, 1.2 tons/ac; Sept. 18, 0.8 tons/ac. Fertilizer Apr. 7, 619 lb/ac 10-10-10; 52 lb/ac N applied June 29 and 33 lb/ac N applied Aug. 14. 1968: Excellent coastal bermudagrass pasture grazed by beef cattle; Jan. 29-Feb. 3 (159 cow-days); Mar. 29-Apr. 9 (312 cow-days); Aug. 25-Sept. 22 (754 cow-days) and Oct. 21-Nov. 4 (375 cow-days). Fertilized: Apr. 16, 233 lb/ac 33.5-0-0 nitrate broadcast; June 5, 361 lb/ac 15-0-15 fertilizer broadcast. June 1, harvested 1.7 tons/acre hay, and July 26, 2.0 tons/acre hay. For topographic map of watershed, see Hydrologic Data for Experimental Watersheds in the United States; 1956-59, USDA Misc. Pub. 945, p. 10.1-8. P and Q records began Sept. 1, 1939. For long-time mean precipitation, see U. S. Weather Bureau records at Athens, Ga. (1885-1939) and Southern Piedmont Conservation Research Center (1940 to date).

1966			SELECTED RUNOFF EVENT				WATKINSVILLE, GEORGIA				WATERSHED W-1 (10001)		
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF MARCH 3 - 4, 1966													
3- 3	RG R1-W1 0.0	0.0	3- 3	RG R1-W1 420	0.0	0.0	3- 3	814	0.0	0.0			
				430	0.1800	0.03		830	0.03	0.0002			
				500	0.0400	0.05		845	0.04	0.0005			
				530	0.0200	0.06		900	0.04	0.0009			
				600	0.1000	0.11		914	0.04	0.0013			
WATERSHED CONDITIONS: Complete cover of coastal bermudagrass just beginning good early spring growth.													
				630	0.0600	0.14		934	0.07	0.0021			
				700	0.1800	0.23		956	0.08	0.0036			
				800	0.0100	0.24		1033	0.07	0.0058			
				830	0.2200	0.35		1155	0.03	0.0084			
				900	0.1800	0.44		1218	0.04	0.0090			
				930	0.2600	0.57		1355	0.0	0.0109			
				1000	0.1600	0.65		1445	0.0	0.0109			
				1100	0.0600	0.71		1557	0.01	0.0110			
				1130	0.0200	0.72		1636	0.03	0.0115			
				1200	0.1800	0.81		1703	0.04	0.0122			
				1500	0.0100	0.84		1730	0.02	0.0127			
				1530	0.0600	0.87		1814	0.02	0.0133			
				1600	0.1000	0.92		1837	0.04	0.0138			
				1630	0.1200	0.98		1901	0.08	0.0149			
				1700	0.0400	1.00		1928	0.12	0.0170			
				1800	0.0100	1.01		1946	0.17	0.0191			
				1830	0.1800	1.10		1954	0.21	0.0204			
				1900	0.1600	1.18		2011	0.42	0.0248			
				1930	0.0800	1.22		2020	0.59	0.0287			
				2000	0.0600	1.25		2040	1.09	0.0431			
				2030	0.5800	1.54		2053	1.71	0.0589			
				2100	0.4800	1.78		2107	1.86	0.0804			
				2230	0.0400	1.84		2137	1.76	0.1257			
				2300	0.4400	2.06		2144	1.77	0.1363			
				2330	0.2000	2.16		2214	1.31	0.1760			
			3- 4	30	0.1400	2.23		2237	1.02	0.1989			
				45	0.4800	2.35		2241	1.37	0.2030			
				200	0.0400	2.40		2251	1.61	0.2158			
				245	0.0	2.40		2258	1.51	0.2252			
				300	0.0800	2.42		2311	1.71	0.2432			
				330	0.1600	2.50		2313	1.73	0.2462			
				400	0.4200	2.71		2323	1.89	0.2618			
				430	0.4000	2.91	3- 4	10	1.71	0.3349			
				530	0.3000	3.21		39	1.51	0.3739			
				633	0.1810	3.40		50	1.71	0.3891			
								118	1.71	0.4303			
								142	1.49	0.4633			
								203	1.31	0.4885			
								256	0.99	0.5407			
								328	0.83	0.5656			
								339	0.87	0.5736			
								348	1.29	0.5822			
								359	1.51	0.5954			
								426	2.66	0.6437			
								435	3.24	0.6665			
								449	4.78	0.7146			
								459	5.50	0.7588			
								527	6.18	0.9014			
								541	5.89	0.9742			
								619	3.80	1.1342			
								636	3.34	1.1864			
								725	1.96	1.2980			
								802	1.28	1.3494			
								949	0.44	1.4232			
								1010	0.36	1.4304			
								1110	0.21	1.4450			
								1156	0.15	1.4520			
								1256	0.10	1.4581			
								1434	0.06	1.4641			
								1500	0.06	1.4653			
								1550	0.05	1.4675			
								1625	0.04	1.4688			

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.051653.

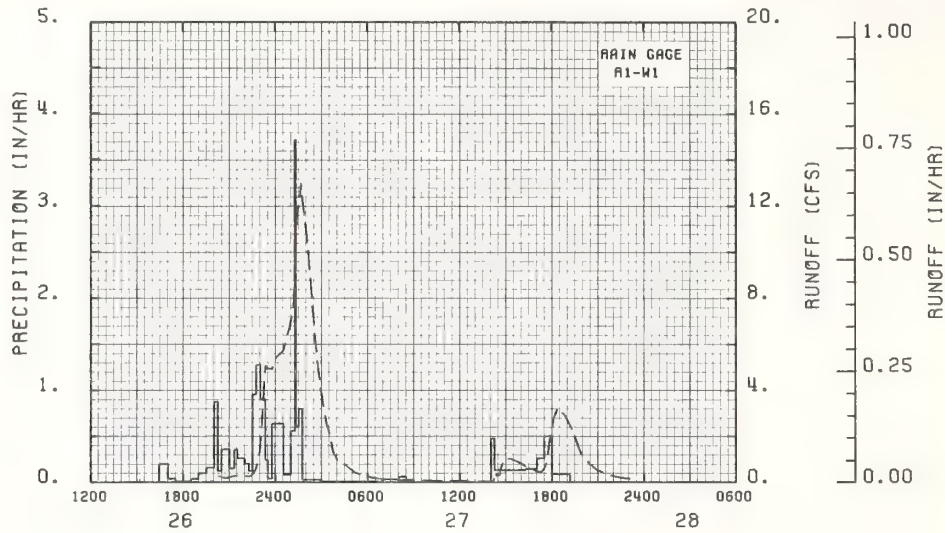


1966 SELECTED RUNOFF EVENT			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 26 - 27, 1966												
5-26	RG R1-W1 1.01	0.000	5-26	RG R1-W1 1627	0.0	0.0	5-26	1917	0.0	0.0		
				1700	0.2000	0.11		1958	0.05	0.0004		
				1730	0.0400	0.13		2005	0.10	0.0007		
				1830	0.0100	0.14		2010	0.15	0.0012		
				1900	0.0400	0.16		2019	0.27	0.0027		
WATERSHED CONDITIONS: Good grazed coastal bermuda- grass complete cover.				1930	0.1000	0.21		2033	0.20	0.0055		
				2000	0.1600	0.29		2045	0.19	0.0075		
				2015	0.8800	0.51		2106	0.26	0.0114		
				2030	0.1200	0.54		2128	0.31	0.0166		
				2100	0.3600	0.72		2154	0.27	0.0229		
				2120	0.1500	0.77		2225	0.29	0.0303		
				2130	0.3600	0.83		2245	0.63	0.0363		
				2200	0.2600	0.96		2256	1.14	0.0448		
				2215	0.2000	1.01		2300	1.65	0.0496		
				2230	0.1200	1.04		2307	2.59	0.0623		
				2245	0.9600	1.28		2317	4.38	0.0912		
				2300	1.2800	1.60		2319	4.73	0.0990		
				2320	0.9000	1.90		2323	5.10	0.1159		
				2330	0.2400	1.94		2329	4.93	0.1418		
				2345	0.0400	1.95		2347	4.92	0.2181		
			5-27	30	0.9600	2.43		2350	5.05	0.2310		
				100	0.0800	2.47	5-27	3	5.46	0.2898		
				115	0.5600	2.61		30	5.75	0.4155		
				120	3.7200	2.92		55	6.79	0.5479		
				130	0.6000	3.02		111	7.65	0.6453		
				145	0.8000	3.22		114	8.41	0.6660		
				300	0.0240	3.25		123	11.41	0.7439		
				530	0.0040	3.26		134	12.30	0.8561		
				700	0.0067	3.27		140	13.01	0.9214		
				800	0.0300	3.30		150	11.90	1.0285		
				830	0.0600	3.33		159	11.02	1.1173		
				1400	0.0	3.33		210	9.80	1.2159		
				1415	0.4800	3.45		223	7.89	1.3148		
				1615	0.1300	3.71		235	6.24	1.3877		
				1700	0.1467	3.82		248	4.84	1.4496		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.051653.

1966 SELECTED RUNOFF EVENT WATKINSVILLE, GEORGIA WATERSHED #1 (10001)										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 26 - 27, 1966 (CONTINUED)										
5-27				1730	0.2600	3.95	5-27	302	3.67	1.5008
				1800	0.5000	4.20		317	2.70	1.5418
				1910	0.0857	4.30		335	1.88	1.5772
								345	1.31	1.5909
								410	0.79	1.6133
								428	0.79	1.6254
								508	0.43	1.6462
								542	0.28	1.6565
								610	0.21	1.6623
								655	0.13	1.6686
								805	0.08	1.6744
								826	0.09	1.6758
								915	0.07	1.6791
								1115	0.04	1.6844
								1215	0.03	1.6859
								1330	0.01	1.6869
								1410	0.02	1.6872
								1413	0.15	1.6874
								1417	0.35	1.6882
								1420	0.46	1.6892
								1423	0.29	1.6901
								1427	0.37	1.6912
								1434	0.31	1.6932
								1441	0.64	1.6961
								1453	1.02	1.7049
								1520	1.02	1.7284
								1525	0.97	1.7326
								1559	0.80	1.7579
								1630	0.58	1.7758
								1706	0.45	1.7922
								1719	0.44	1.7971
								1734	0.74	1.8041
								1740	0.97	1.8085
								1748	1.57	1.8171
								1753	1.99	1.8247
								1806	2.78	1.8516
								1823	3.24	1.8966
								1838	3.04	1.9371
								1852	2.88	1.9728
								1911	2.46	2.0164
								1953	1.26	2.0816
								2028	0.78	2.1113
								2059	0.51	2.1285
								2129	0.36	2.1397
								2203	0.24	2.1483
								2234	0.18	2.1538
								2317	0.12	2.1591

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.051653.



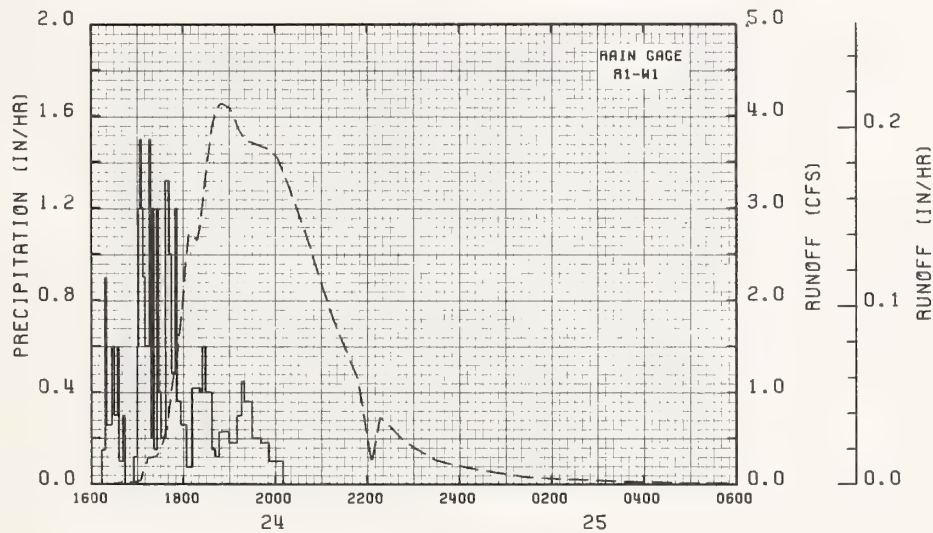
EVENT OF MAY 26 - 27, 1966
WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

1967 SELECTED RUNOFF EVENT						WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 24 - 25, 1967											
11-24	RG R1-W1 0.59	0.005	11-24	RG R1-W1	0.0	0.0	11-24	1629	0.0	0.0	
				1614	0.0	0.0		1640	0.03	0.0001	
				1618	0.1500	0.01		1653	0.02	0.0003	
				1620	0.9000	0.08		1705	0.05	0.0006	
				1627	0.2571	0.07		1707	0.12	0.0007	
				1630	0.6000	0.10					
				1634	0.3000	0.12		1711	0.18	0.0012	
				1636	0.6000	0.14		1714	0.29	0.0018	
				1642	0.1000	0.15		1725	0.31	0.0045	
				1644	0.3000	0.16		1731	0.38	0.0063	
				1655	0.0	0.16		1739	0.63	0.0097	
				1700	0.1200	0.17		1745	1.02	0.0139	
				1702	0.6000	0.19		1748	1.19	0.0167	
				1704	1.2000	0.23		1752	1.38	0.0211	
				1706	1.5000	0.28		1800	1.96	0.0326	
				1708	1.2000	0.32		1804	2.43	0.0401	
				1710	0.9000	0.35		1808	2.72	0.0490	
				1716	0.6000	0.41		1812	2.72	0.0583	
				1718	1.5000	0.46		1818	2.65	0.0721	
				1721	0.2000	0.47		1822	2.78	0.0814	
				1722	1.2000	0.49		1830	3.35	0.1025	
				1726	0.1500	0.50		1839	3.91	0.1306	
				1727	1.2000	0.52		1844	4.06	0.1477	
				1728	1.2003	0.54		1850	4.14	0.1689	
				1731	0.4000	0.56		1902	4.08	0.2113	
				1737	0.2000	0.58		1914	3.84	0.2522	
				1742	1.3200	0.69		1922	3.73	0.2782	
				1745	1.0000	0.74		1953	3.63	0.3762	
				1750	0.4800	0.78		2004	3.53	0.4100	
				1752	1.2000	0.82		2020	3.20	0.4563	
				1757	0.3600	0.85		2044	2.63	0.5164	
				1804	0.2571	0.88		2057	2.27	0.5437	
				1812	0.0750	0.89		2116	1.79	0.5768	
				1822	0.4200	0.96		2148	1.15	0.6171	
				1825	0.4000	0.98		2206	0.22	0.6326	
				1829	0.6000	1.02		2217	0.73	0.6401	

NOTES: To convert runoff in CFS in IN/HR, multiply by 0.051653.

1967 SELECTED RUNOFF EVENT			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 24 - 25, 1967 (CONTINUED)											
			11-24	1838	0.4000	1.08	11-24	2246	0.49	0.6553	
				1842	0.1500	1.09		2304	0.38	0.6619	
				1847	0.1200	1.10		2324	0.28	0.6675	
				1900	0.2300	1.15		2329	0.26	0.6686	
				1910	0.1800	1.18		2351	0.21	0.6729	
				1916	0.3000	1.21	11-25	9	0.18	0.6758	
				1920	0.4500	1.24		29	0.15	0.6785	
				1930	0.3600	1.30		50	0.12	0.6808	
				1942	0.2000	1.34		130	0.07	0.6839	
				1952	0.1800	1.37		200	0.06	0.6855	
			2010		0.1000	1.40		300	0.04	0.6877	
								322	0.03	0.6883	
								405	0.02	0.6891	
								455	0.01	0.6896	
								556	0.01	0.6899	
								626	0.01	0.6900	

NOTES: To convert runoff in CFS in IN/HR, multiply by 0.051653.



EVENT OF NOVEMBER 24 - 25, 1967

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)

LOCATION: Pulaski Co., Va.; 3.5 mi. W. of Dublin, Va., Peak Creek, New River.

AREA: 3054.00 acres 4.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	2.77	0.43	3.64	3.65	4.53	1.20	5.09	5.48	1.11	4.29	1.78	1.18	35.16			
	O	0.224	0.389	0.286	0.300	0.262	0.263	0.294	0.291	0.103	0.115	0.086	0.072	2.685			
STA AV	P	2.26	2.77	3.44	2.80	3.53	2.18	3.31	4.05	3.47	2.83	2.38	2.77	35.78			
	O	0.366	0.372	0.617	0.636	0.497	0.297	0.199	0.217	0.128	0.129	0.117	0.208	3.781			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval				1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968		7-13	0.074	7-13	0.042	7-13	0.066	7-13	0.088	7-13	0.096	7-13	0.101	7-13	0.110	1-30	0.196
MAXIMUMS FOR PERIOD OF RECORD																	
		5-17	0.120	5-17	0.100	5-17	0.180	5-17	0.300	5-17	0.340	5-17	0.380	5-17	0.470	3-30	1.090
		1958		1958		1958		1958		1958		1958		1958		1960	

NOTES: Watershed conditions: Pasture, usually good cover of bluegrass and other native grasses and clovers, 56%; corn, 10%; hay, 24%; farm woods, 5%; idle, 4%; roads, 1%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 13.6-5. Precipitation Thiessen weighted from rain gages R-1, R-2, and R-3. STA AV determined from continuous records from June 1957 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Radford, Virginia.

1968	DAILY PRECIPITATION (inches)					BLACKSBURG, VIRGINIA								THORNE CREEK WATERSHED (13006)			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
1	0.0	0.0	0.0	0.20	0.19	0.27E	0.0	0.0	0.18E	0.0	0.0	0.30E					
2	0.0	0.04E	0.0	0.00	0.0	0.18	0.73	0.45	0.0	0.0	0.0	0.0					
3	0.17E	0.0	0.0	0.53E	0.0	0.0	0.01E	0.44	0.0	0.13	0.0	0.16E					
4	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.03	0.07E					
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
6	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.69	0.06	0.0	0.0					
7	0.02E	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.08	0.24	0.0	0.0					
8	0.0	0.0	0.0	0.19E	0.0	0.21	0.0	0.03	0.0	0.0	0.0	0.0					
9	0.12E	0.0	0.0	0.0	0.0	0.18	0.0	0.31	0.01	0.0	0.20E	0.0					
10	0.19E	0.0	0.34	0.24E	0.17	0.02	0.0	0.07	0.83	0.0	0.12E	0.0					
11	0.12E	0.0	0.26	0.01E	0.01	0.0	1.13	1.34	0.0	0.0	0.23E	0.0					
12	0.09E	0.0	1.27	0.0	0.08	0.0	0.04	0.0	0.0	0.0	0.45E	0.0					
13	1.61E	0.0	0.01	0.0	0.0	0.0	1.36	0.03	0.0	0.26E	0.0	0.0					
14	0.13E	0.0	0.0	0.42	0.79	0.0	0.0	0.22E	0.0	0.0	0.0	0.02E					
15	0.0	0.0	0.0	0.04	0.0	0.0	0.09E	0.41E	0.0	0.0	0.0	0.0					
16	0.0	0.0	0.69	0.0	0.08	0.00	0.0	0.22E	0.0	0.37	0.0	0.0					
17	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.16E	0.0					
18	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.64	0.30E	0.0					
19	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.85	0.0	2.03	0.0	0.0					
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
22	0.0	0.0	0.14	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.62					
23	0.00E	0.0	0.22	0.94E	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0					
24	0.18E	0.0	0.0	0.16E	0.45E	0.0	0.0	0.0	0.0	0.0	0.01E	0.0					
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.26E	0.05	0.83	0.0	0.08E	0.0	0.0	0.0					
27	0.0	0.0	0.0	0.10	1.68E	0.0	0.69	0.0	0.0	0.0	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.01E	0.0	0.0					
29	0.0	0.39E	0.0	0.81E	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
30	0.0	0.02	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
31	0.0		0.64		0.0		0.0	0.0		0.0		0.0					
TOTAL	2.77	0.43	3.64	3.65	4.53	1.20	5.09	5.48	1.11	4.29	1.78	1.18					
STA AV	2.26	2.77	3.44	2.80	3.53	2.18	3.31	4.05	3.47	2.83	2.38	2.77					

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period June 1957 through 1968.

1968	MEAN DAILY DISCHARGE (cfs)					BLACKSBURG, VIRGINIA		THORNE CREEK WATERSHED (13006)				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.323	3.133	0.556	1.888	1.026	1.650	0.726	0.636	0.540	0.325	0.331	0.327
2	0.317	3.895	0.905	1.431	1.022	1.671	1.088	0.695	0.562	0.337	0.317	0.377
3	0.363	3.916	0.761	1.812	0.972	1.646	0.910	1.015	0.509	0.368	0.317	0.321
4	0.613	3.358	0.793	1.665	0.948	1.419	0.767	9.117	0.491	0.347	0.326	0.379
5	0.604	3.031	0.752	1.614	0.888	1.381	0.757	1.552	0.516	0.336	0.315	0.329
6	0.549	2.758	0.759	1.489	0.862	1.350	0.730	0.979	0.509	0.365	0.317	0.351
7	0.480	2.544	0.759	1.443	0.871	1.305	0.672	0.907	0.471	0.476	0.382	0.283
8	0.428	2.278	0.759	1.542	0.827	1.319	0.678	0.859	0.476	0.344	0.342	0.288
9	0.479	2.024	0.759	1.467	0.842	1.391	0.565	0.849	0.476	0.364	0.324	0.275
10	0.503	1.727	0.853	1.536	0.866	1.282	0.578	0.775	0.688	0.389	0.358	0.263
11	0.486	1.620	0.750	1.491	0.918	1.215	1.676	2.758	0.470	0.345	0.348	0.271
12	0.803	1.483	1.972	1.314	0.901	1.216	0.743	1.123	0.473	0.343	0.410	0.279
13	0.906	1.318	1.776	1.306	0.818	1.143	11.511	0.985	0.476	0.512	0.380	0.335
14	0.677	1.366	1.307	1.291	1.077	1.099	2.510	1.064	0.453	0.357	0.388	0.300
15	0.660	1.310	1.152	1.241	0.950	1.121	1.049	0.998	0.431	0.316	0.471	0.249
16	0.588	1.228	1.489	1.209	0.911	1.049	0.949	1.226	0.394	0.324	0.465	0.200
17	0.650	1.088	1.718	1.134	0.818	1.001	0.867	0.951	0.397	0.411	0.421	0.245
18	0.701	1.577	1.535	1.036	0.827	1.055	0.843	0.868	0.397	0.398	0.549	0.251
19	0.691	1.021	1.582	0.986	0.802	0.988	0.819	1.108	0.403	2.753	0.494	0.274
20	0.633	1.042	1.559	1.034	0.791	0.914	0.765	1.268	0.427	0.769	0.404	0.277
21	0.724	1.036	1.471	0.994	0.727	0.909	0.723	0.854	0.396	0.510	0.403	0.257
22	1.024	0.945	1.431	0.947	0.686	0.889	0.697	0.812	0.389	0.493	0.390	0.406
23	1.903	0.939	1.598	1.196	0.664	0.905	0.698	0.786	0.338	0.475	0.356	0.315
24	1.756	0.974	1.419	1.405	0.799	0.884	0.688	0.791	0.357	0.460	0.357	0.246
25	1.609	0.934	1.290	1.025	0.730	0.901	0.625	0.704	0.357	0.430	0.333	0.237
26	1.435	0.827	1.196	0.990	0.717	0.875	0.724	0.635	0.385	0.395	0.317	0.243
27	1.369	0.879	1.193	0.992	4.348	0.863	1.499	0.642	0.378	0.397	0.317	0.281
28	1.302	0.938	1.123	0.991	1.434	0.770	0.744	0.594	0.357	0.377	0.318	0.466
29	1.442	0.736	1.124	1.328	1.532	0.763	0.696	0.575	0.357	0.357	0.306	0.300
30	1.911		1.109	1.147	2.355	0.747	0.696	0.576	0.341	0.348	0.299	0.314
31	2.778		1.289		1.702		0.691	0.576		0.336		0.316
MEAN	0.9261	1.7215	1.1850	1.2848	1.0849	1.1239	1.2156	1.2025	0.4405	0.4761	0.3685	0.2986
INCHES	0.224	0.389	0.286	0.300	0.262	0.263	0.294	0.291	0.103	0.115	0.086	0.072
STA AV	0.366	0.372	0.617	0.636	0.497	0.297	0.199	0.217	0.128	0.129	0.117	0.208

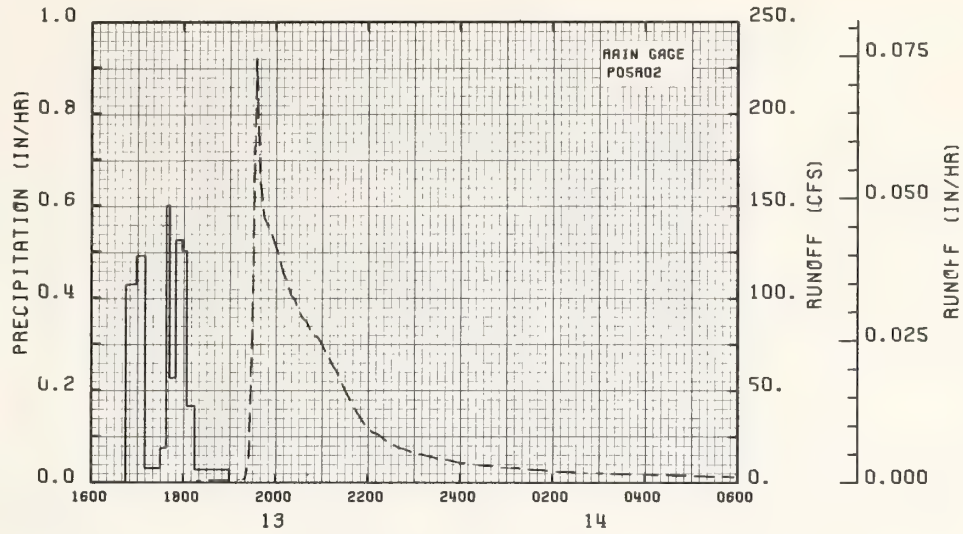
NOTES: To convert CFS to IN/DAY, multiply by 0.0077928. STA AV based on record period June 1957 through 1968.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA		THORNE CREEK WATERSHED (13006)				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 13 - 14, 1968										
RG P05R02			RG P05R02							
7-13	0.0	0.004	7-13	1645	0.0	0.0	7-13	1810	0.74	0.0
				1659	0.4286	0.10		1820	1.04	0.0
				1710	0.4907	0.19		1830	1.14	0.0001
				1730	0.0300	0.20		1845	1.05	0.0002
				1738	0.0750	0.21		1900	1.29	0.0003
WATERSHED CONDITIONS:				1742	0.5997	0.25		1910	1.47	0.0004
Pasture mostly a mixture of				1750	0.2251	0.28		1920	2.10	0.0005
native grasses 6 to 8 in.				1758	0.5247	0.35		1925	13.11	0.0007
high, fair to good cover 56%;				1804	0.5000	0.40		1930	92.56	0.0022
hay, good cover, 24%; corn,				1815	0.1637	0.43		1935	229.89	0.0065
4 to 5 ft. high, 10%; idle,										
good cover of weeds and										
grasses, 8%; woods, mostly				1900	0.0267	0.45		1940	162.07	0.0117
hardwood, 5%; paved roads,								1945	143.10	0.0160
1%.								1955	133.46	0.0234
								2005	121.15	0.0303
								2010	112.42	0.0334
								2015	108.64	0.0365
								2020	100.99	0.0393
								2025	98.35	0.0420
								2030	92.38	0.0447
								2035	88.62	0.0471
								2040	86.60	0.0494
								2045	82.54	0.0518
								2050	78.86	0.0539
								2055	77.85	0.0560
								2100	74.85	0.0581
								2105	70.30	0.0600
								2110	66.35	0.0618
								2115	62.46	0.0636
								2120	59.38	0.0652
								2125	54.14	0.0667
								2130	49.71	0.0681
								2135	46.09	0.0694
								2140	41.33	0.0706
								2145	38.22	0.0717
								2150	35.01	0.0727

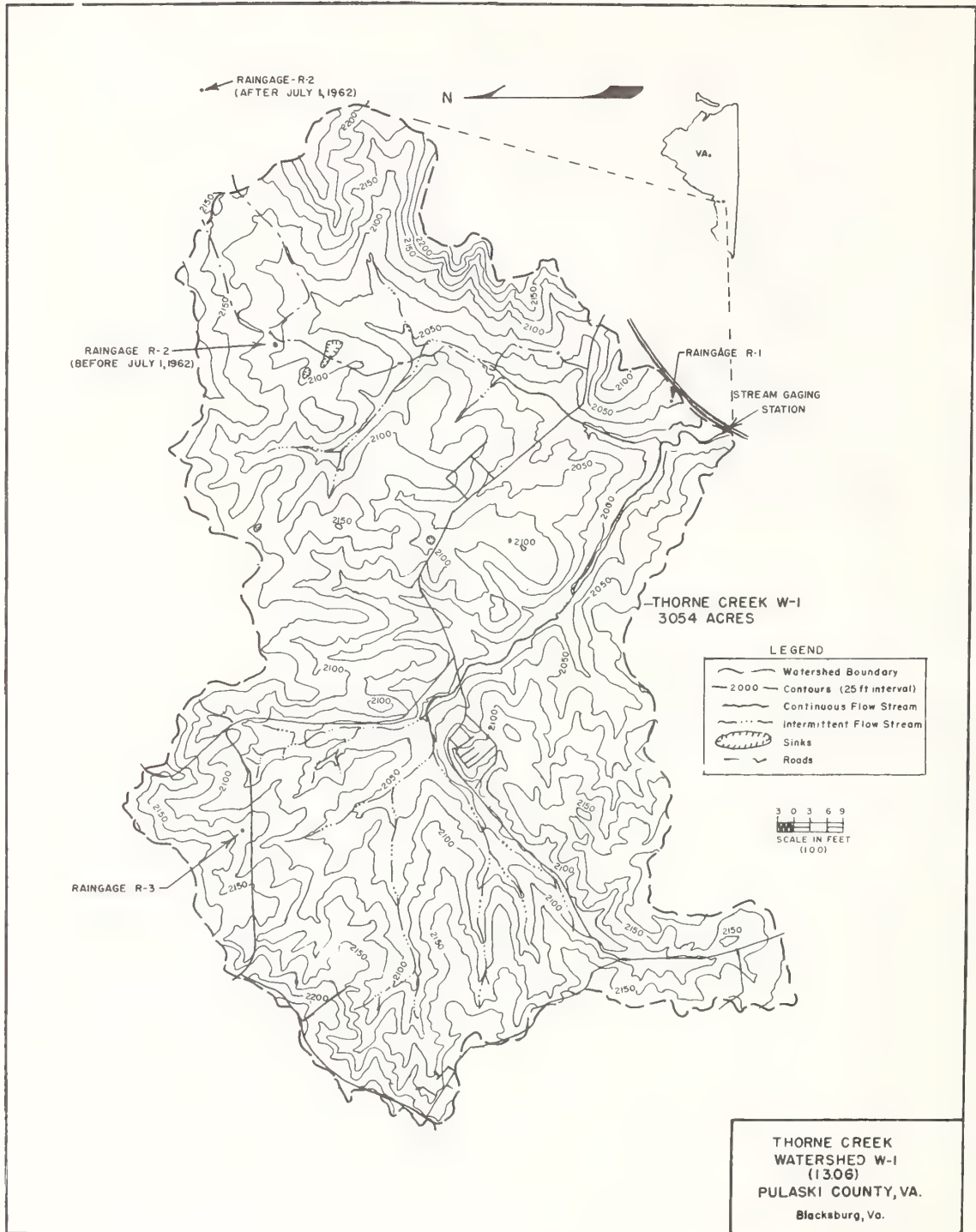
NOTES: To convert CFS to IN/HR, multiply by 0.0003247.

1968	SELECTED RUNOFF EVENT					BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 13 - 14, 1968 (CONTINUED)										
7-13								2155	31.51	0.0736
								2200	29.86	0.0745
								2205	27.25	0.0753
								2210	25.95	0.0760
								2215	25.14	0.0767
								2220	23.47	0.0773
								2225	21.99	0.0779
								2230	21.07	0.0785
								2235	19.86	0.0790
								2240	18.26	0.0795
								2245	18.09	0.0800
								2250	17.18	0.0805
								2255	16.40	0.0809
								2300	15.88	0.0814
								2310	14.63	0.0822
								2315	14.15	0.0826
								2325	13.34	0.0833
								2330	12.53	0.0837
								2340	12.33	0.0844
								2350	11.29	0.0850
7-14								2400	10.35	0.0856
								5	10.35	0.0859
								15	9.72	0.0864
								25	9.10	0.0869
								35	8.83	0.0874
								45	8.55	0.0879
								55	7.75	0.0883
								105	7.51	0.0887
								115	7.51	0.0891
								125	6.98	0.0895
								135	6.46	0.0899
								145	6.50	0.0903
								155	6.03	0.0906
								205	5.62	0.0909
								215	5.65	0.0912
								225	5.44	0.0915
								235	5.23	0.0918
								245	5.01	0.0921
								255	4.80	0.0924
								305	4.67	0.0927
								320	4.50	0.0931
								330	4.33	0.0933
								345	4.24	0.0936
								400	4.07	0.0939
								415	3.83	0.0942
								425	3.66	0.0944
								440	3.57	0.0947
								455	3.40	0.0950
								510	3.23	0.0953
								525	3.06	0.0956
								540	2.94	0.0958
								555	2.85	0.0960
								615	2.75	0.0963
								635	2.62	0.0966
								655	2.50	0.0969
								715	2.37	0.0972
								735	2.28	0.0975
								805	2.18	0.0979
								835	2.05	0.0982
								905	1.94	0.0985
								945	1.87	0.0989
								1030	1.78	0.0993
								1120	1.69	0.0998
								1205	1.61	0.1002

NOTES: To convert CFS to IN/HR, multiply by 0.0003247.



EVENT OF JULY 13 - 14, 1968
BLACKSBURG, VIRGINIA THORNE CREEK WATERSHED (13006)



BLACKSBURG, VIRGINIA CRAB CREEK WATERSHED (13007)

LOCATION: Montgomery County, Va., 2 mi. W. of Christiansburg, Va., New River.

AREA: 786.00 acres 1.23 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						BLACKSBURG, VIRGINIA CRAB CREEK WATERSHED (13007)											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	2.46	0.36	3.14	3.36	2.73	3.71	3.28	3.61	1.05	4.41	2.26	1.70	32.07			
	Q	0.531	0.605	0.621	0.384	0.257	0.204	0.141	0.151	0.094	0.146	0.203	0.165	3.502			
STA AV	P	2.26	2.59	3.22	2.72	3.08	2.43	3.55	3.57	2.98	2.71	2.32	2.74	34.17			
	Q	0.703	0.746	1.147	0.853	0.569	0.291	0.258	0.306	0.219	0.241	0.246	0.445	6.024			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		3-12	0.008	3-12	0.008	3-12	0.016	3-12	0.041	3-12	0.062	3-12	0.086	1-31	0.155	1-29	0.413
MAXIMUMS FOR PERIOD OF RECORD																	
		8-21	0.230	3-13	0.150	3-13	0.230	3-13	0.360	4- 3	0.420	4- 3	0.520	4- 3	0.730	3-27	1.760
		1966		1967		1967		1967		1960		1960		1960		1960	

NOTES: Watershed conditions: Cultivated, alfalfa and other hay crops, 28%; corn, 10%; permanent pasture, usually good cover of native bluegrass combined with other grasses and clovers, 43%; farm woods predominately hard wood, 13%; idle, 5%; roads, 1%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.7-5. Precipitation Thiessen weighted from rain gauges R-1, R-2, R-3, and R-4. Station average precipitation determined from record period from August 1957 through 1968. For long-time precipitation records, see U.S. Weather Bureau records for Blacksburg, Virginia.

1968 DAILY AIR TEMPERATURE (degrees F)													BLACKSBURG, VIRGINIA CRAB CREEK WATERSHED (13007)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	29 19	37 33	27 16	56 44	74 46	77 41	90 61	82 62	62 51	77 44	72 44	31 26		
2	29 16	48 33	49 25	50 30	75 44	71 56	89 63	80 62	76 51	75 47	70 47	56 31		
3	43 22	43 28	28 17	51 36	76 52	74 57	68 56	78 62	80 47	68 48	69 43	44 36		
4	41 13	44 26	45 21	61 48	68 49	78 54	74 52	82 60	76 52	50 32	52 43	40 26		
5	28 9	50 20	55 28	56 35	60 38	78 51	73 54	88 61	75 60	55 24	55 46	37 25		
6	34 19	48 20	41 30	57 35	57 34	80 51	78 52	88 65	74 51	69 35	51 47	38 21		
7	33 9	44 21	51 26	64 40	62 38	76 54	81 51	88 64	76 46	62 44	53 41	31 18		
8	24 9	39 22	60 26	64 50	67 44	72 64	79 59	86 63	73 48	62 41	41 32	21 6		
9	31 16	34 19	69 38	60 50	69 47	73 64	75 55	83 64	69 53	56 48	36 29	25 12		
10	31 20	20 9	60 44	53 43	74 52	82 64	77 59	81 63	76 55	56 49	34 28	27 12		
11	22 9	21 9	62 44	55 35	69 55	80 62	69 60	67 57	64 49	71 50	33 28	36 8		
12	22 9	28 9	44 33	67 31	75 61	72 61	76 60	70 54	65 46	73 56	30 27	52 17		
13	30 16	20 10	43 18	72 41	80 57	67 52	82 62	79 56	71 41	75 52	32 25	53 38		
14	31 23	42 12	42 12	74 50	61 48	78 42	82 63	79 62	74 44	68 46	46 24	43 17		
15	30 22	34 22	52 28	50 36	81 48	84 51	85 60	81 64	75 46	65 55	56 36	20 11		
16	32 17	42 21	51 41	63 33	76 59	85 56	83 60	82 64	70 51	61 56	58 42	29 10		
17	41 12	37 14	52 39	62 42	68 53	75 57	84 62	86 66	72 53	70 59	54 45	41 19		
18	48 18	26 10	61 39	75 52	70 52	64 53	82 62	88 65	60 50	64 60	56 30	49 26		
19	44 21	38 13	74 37	73 53	69 47	79 55	80 60	92 62	69 52	64 44	34 22	58 38		
20	47 27	40 18	78 45	70 49	59 46	74 50	81 57	90 63	76 52	62 41	25 20	50 30		
21	50 37	18 9	77 52	77 52	58 40	76 44	84 53	87 68	77 48	66 43	41 17	48 25		
22	47 30	26 9	72 45	72 54	67 38	82 56	86 62	91 64	78 49	69 39	57 36	36 32		
23	84 25	36 10	45 20	57 48	71 53	86 60	86 61	88 67	84 47	64 44	59 28	44 22		
24	25 17	41 17	45 21	61 39	77 50	83 61	85 59	90 65	83 50	60 40	53 33	26 18		
25	34 16	32 18	56 29	58 37	64 57	83 62	83 62	86 62	81 50	46 32	45 31	26 14		
26	43 16	42 12	66 35	64 38	64 58	84 60	79 63	69 49	72 53	39 31	54 28	30 18		
27	51 17	43 17	72 39	61 40	63 48	73 52	76 63	68 45	72 45	59 28	51 34	52 27		
28	53 32	42 22	68 47	60 39	61 46	67 46	80 60	70 43	72 42	49 33	61 46	59 34		
29	60 28	33 17	74 48	47 42	71 49	85 49	76 57	70 42	72 44	37 32	57 34	34 23		
30	51 34		70 53	64 39	60 50	91 59	72 61	69 42	74 47	48 26	39 28	40 20		
31	45 34		69 50		64 50		80 63	69 47		64 25		40 25		
AV.	37 19	36 17	56 33	61 42	68 48	77 54	79 59	80 59	73 49	61 42	49 33	39 22		
MEAN	28.8	26.7	45.3	52.0	58.4	66.3	69.5	70.0	61.2	51.8	41.5	30.7		
STA AV	39 22	39 21	53 31	61 41	69 49	77 55	80 60	79 59	70 50	61 39	50 32	42 25		

NOTES: Temperature data obtained at the R-3 rain gage location. Station average is average for 4 yr period (1965-68).

1968	DAILY PRECIPITATION (inches)					BLACKSBURG, VIRGINIA				CRAB CREEK WATERSHED (13007)			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.22	0.10E	0.31	0.0	0.0	0.13E	0.0	0.0	0.27E	
2	0.0	0.0	0.0	0.02	0.0	0.43	0.02E	0.63	0.0	0.0	0.0	0.01	
3	0.27	0.0	0.0	0.48	0.0	0.01E	0.03E	0.13	0.0	0.12E	0.0	0.0	
4	0.05	0.0	0.0	0.00	0.07E	0.0	0.0	0.28	0.0	0.0	0.23E	0.14E	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
6	0.08M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64E	0.02E	0.0	
7	0.01M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.43E	0.0	
8	0.0	0.0	0.0	0.08	0.0	0.64E	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.01M	0.01E	0.0	0.0	0.0	0.41	0.0	0.74	0.0	0.0	0.18M	0.0	
10	0.08M	0.01E	0.28E	0.04E	0.09E	0.10	0.0	0.09	0.80	0.0	0.24M	0.0	
11	0.14M	0.0	0.13	0.0	0.01	0.0	1.10	0.79	0.0	0.0	0.30S	0.0	
12	0.0	0.0	1.25	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.32S	0.0	
13	1.43M	0.0	0.02E	0.0	0.0	0.0	0.04E	0.0	0.0	0.00	0.0	0.08E	
14	0.17M	0.0	0.0	0.01	0.62E	0.0	0.08E	0.11	0.0	0.0	0.0	0.04E	
15	0.00	0.0	0.0	0.17	0.0	0.0	0.0	0.32	0.0	0.01E	0.0	0.0	
16	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.03	0.0	0.14	0.00	0.0	
17	0.0	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.09	0.10	0.0	
18	0.0	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.0	1.03	0.35	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	2.30E	0.00	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.08M	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0	0.65	
23	0.06M	0.0	0.32M	0.60	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.14M	0.0	0.0	0.42	0.07	0.62	0.0	0.0	0.0	0.05E	0.08E	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.19	0.93	0.35	0.0	0.11	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.16E	0.96	0.14	0.47	0.0	0.0	0.0	0.0	0.00	
28	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.50	
29	0.0	0.34M	0.0	1.04E	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.46	0.36	3.14	3.36	2.73	3.71	3.28	3.61	1.05	4.41	2.26	1.70	
STA AV	2.26	2.59	3.22	2.72	3.08	2.43	3.55	3.57	2.98	2.71	2.32	2.74	

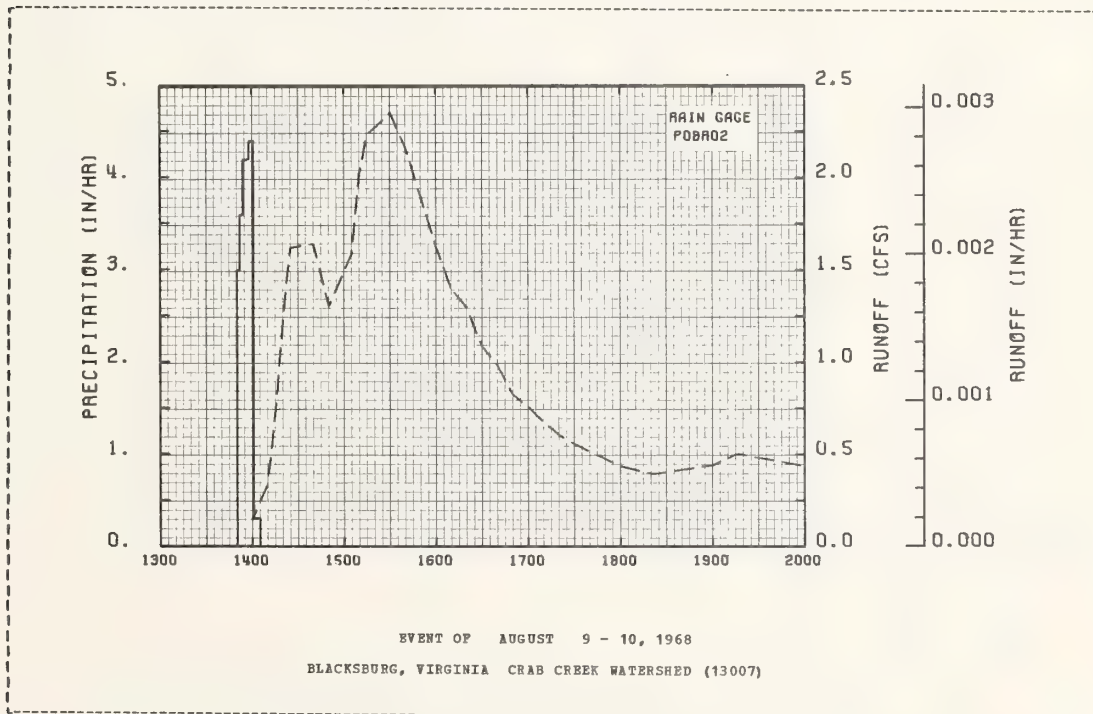
NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, R-3, and R-4. STA AV based on record period August 1957 through 1968.

1968	MEAN DAILY DISCHARGE (cfs)					BLACKSBURG, VIRGINIA				CRAB CREEK WATERSHED (13007)			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.222	2.356	0.310	0.630	0.427	0.210	0.160	0.126	0.115	0.090	0.109	0.149	
2	0.218	2.786	0.336	0.435	0.404	0.300	0.160	0.194	0.109	0.090	0.109	0.219	
3	0.374	1.761	0.345	0.711	0.344	0.370	0.160	0.178	0.109	0.093	0.109	0.159	
4	0.949	1.200	0.297	0.610	0.344	0.222	0.168	0.174	0.109	0.089	0.120	0.197	
5	0.596	0.947	0.307	0.553	0.325	0.216	0.160	0.165	0.109	0.090	0.120	0.236	
6	0.469	0.852	0.324	0.497	0.291	0.191	0.160	0.128	0.109	0.100	0.112	0.222	
7	0.459	0.755	0.306	0.468	0.253	0.191	0.155	0.126	0.108	0.142	0.177	0.128	
8	0.421	0.728	0.299	0.448	0.253	0.219	0.143	0.127	0.113	0.090	0.145	0.128	
9	0.326	0.622	0.309	0.482	0.253	0.410	0.129	0.375	0.109	0.090	0.121	0.128	
10	0.344	0.595	0.466	0.450	0.253	0.302	0.128	0.207	0.162	0.090	0.160	0.128	
11	0.321	0.495	0.411	0.430	0.276	0.247	0.257	0.443	0.144	0.090	0.163	0.128	
12	0.299	0.472	2.000	0.390	0.267	0.219	0.153	0.222	0.109	0.090	0.210	0.128	
13	0.310	0.421	1.620	0.390	0.251	0.191	0.129	0.157	0.109	0.095	0.191	0.132	
14	0.368	0.448	0.779	0.390	0.329	0.186	0.146	0.143	0.109	0.109	0.219	0.150	
15	0.299	0.470	0.725	0.437	0.329	0.174	0.128	0.166	0.109	0.109	0.358	0.112	
16	0.288	0.472	1.054	0.343	0.253	0.171	0.128	0.179	0.101	0.110	0.402	0.291	
17	0.253	0.507	1.828	0.253	0.241	0.171	0.126	0.152	0.090	0.125	0.379	0.170	
18	0.253	0.497	1.003	0.260	0.230	0.192	0.125	0.128	0.090	0.150	0.674	0.128	
19	0.270	0.419	0.816	0.288	0.222	0.186	0.129	0.156	0.098	1.294	0.466	0.128	
20	0.271	0.375	0.733	0.253	0.217	0.172	0.125	0.179	0.090	0.285	0.327	0.121	
21	0.649	0.369	0.673	0.249	0.200	0.160	0.117	0.127	0.090	0.171	0.253	0.113	
22	0.622	0.348	0.614	0.233	0.191	0.160	0.172	0.126	0.090	0.128	0.247	0.216	
23	0.847	0.307	0.911	0.257	0.191	0.160	0.163	0.125	0.090	0.128	0.211	0.226	
24	1.006	0.307	0.622	0.633	0.191	0.223	0.126	0.117	0.090	0.128	0.218	0.198	
25	0.772	0.296	0.595	0.310	0.191	0.227	0.158	0.109	0.090	0.127	0.237	0.203	
26	0.642	0.284	0.531	0.253	0.193	0.357	0.132	0.107	0.093	0.114	0.191	0.160	
27	0.560	0.299	0.498	0.275	0.467	0.335	0.269	0.110	0.100	0.122	0.191	0.151	
28	0.581	0.299	0.489	0.279	0.281	0.214	0.151	0.108	0.090	0.119	0.191	0.350	
29	0.738	0.296	0.435	0.804	0.250	0.186	0.128	0.109	0.090	0.126	0.171	0.266	
30	1.257	0.435	0.666	0.319	0.169	0.169	0.128	0.110	0.090	0.109	0.128	0.191	
31	2.557	0.452	0.235	0.235	0.235	0.235	0.128	0.109	0.109	0.109	0.109	0.196	
MEAN	0.5659	0.6891	0.6620	0.4227	0.2733	0.2243	0.1497	0.1608	0.1040	0.1550	0.2237	0.1761	
INCHES	0.531	0.605	0.621	0.384	0.257	0.204	0.141	0.151	0.094	0.146	0.203	0.165	
STA AV	0.703	0.746	1.147	0.853	0.569	0.291	0.258	0.306	0.219	0.241	0.246	0.445	

NOTES: To convert CFS to IN/DAY, multiply by 0.030281. STA AV based on record period August 1957 through 1968.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CRAB CREEK WATERSHED (13007)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 9 - 10, 1968										
RG P08R02			RG P08R02							
8- 9	0.0	0.002	8- 9	1350	0.0	0.0	8- 9	1400	0.15	0.0
				1352	3.0000	0.10		1410	0.34	0.0001
				1354	3.6000	0.22		1415	0.72	0.0002
				1358	4.2000	0.50		1420	1.22	0.0003
				1401	4.4000	0.72		1425	1.62	0.0004
WATERSHED CONDITIONS: Permanent pasture, blue grass combined with other native grasses and clover, good cover, 43%; corn, 8 to 10 ft. high, full tassel, some grass and weed undergrowth, fair cover, 10%; alfalfa and other hay, good cover, 28%; idle with weeds, grasses, and vines, good cover, 5%; farm woods predominately hard wood, 13%; paved roads, 1%.			1405	0.3003	0.74		1440	1.64	0.0009	
							1450	1.30	0.0012	
							1505	1.59	0.0017	
							1510	2.02	0.0019	
							1515	2.23	0.0021	
							1530	2.35	0.0028	
							1540	2.16	0.0033	
							1550	1.89	0.0037	
							1600	1.62	0.0041	
							1610	1.39	0.0044	
							1620	1.29	0.0047	
							1630	1.08	0.0050	
							1640	0.98	0.0052	
							1650	0.82	0.0054	
							1700	0.75	0.0056	
							1710	0.67	0.0057	
							1720	0.60	0.0058	
							1730	0.55	0.0059	
							1745	0.49	0.0061	
							1800	0.43	0.0062	
							1820	0.39	0.0064	
							1900	0.44	0.0068	
							1915	0.50	0.0069	
							2000	0.43	0.0073	
							2050	0.39	0.0077	
							2145	0.34	0.0081	
							2250	0.34	0.0086	
							2400	0.29	0.0091	
			8-10				25	0.25	0.0092	
							320	0.25	0.0101	
							745	0.22	0.0114	
							1455	0.19	0.0133	

NOTES: To convert CFS to IN/HR, multiply by 0.0012617.



BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)

LOCATION: Floyd County, Va.; 1 mi. W. of Terrys Fork, Va. Little River, New River.

AREA: 893.00 acres 1.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1968	P	3.43	0.39	2.66	3.94	2.79	2.82	3.64	2.79	0.75	6.76	2.26	1.58	33.81	
	Q	1.533	1.173	1.619	1.407	1.160	0.940	0.706	0.619	0.332	1.286	1.156	0.964	12.893	
STA AV	P	2.31	2.86	3.22	2.95	3.43	2.21	3.79	3.77	3.57	3.07	2.50	2.83	36.52	
	Q	1.667	1.907	2.365	1.873	1.560	0.958	0.910	0.886	1.109	1.216	1.224	1.538	17.213	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
	Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval Date	6 Hours Vol.	12 Hours Vol.	1 Day Vol.	2 Days Vol.	8 Days Vol.						
1968	10-19 0.071	10-19 0.069	10-19 0.129	10-19 0.277	10-19 0.442	10-18 0.570	10-18 0.669	10-17 0.859							
MAXIMUMS FOR PERIOD OF RECORD															
	9-30 1.160	9-30 0.620	9-30 0.910	9-30 1.620	9-30 2.170	9-29 2.590	9-29 2.810	9-29 3.230							
	1959	1959	1959	1959	1959	1959	1959	1959							

NOTES: Watershed conditions: Permanent pasture, usually a fair cover of native grasses, 33%; farm woods, a mixture of hardwoods and conifers, 34%; corn, 4%; hay, 20%; idle land, 7%; roads, 2%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.8-5. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from August 1957 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Blacksburg, Virginia.

1968 DAILY PRECIPITATION (inches)													BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.43	0.10E	0.16E	0.0	0.0	0.12	0.0	0.0	0.29		
2	0.0	0.05	0.01	0.05	0.0	0.19E	0.60	0.61	0.0	0.0	0.0	0.04		
3	0.32	0.0	0.0	0.49	0.0	0.24	0.18	0.01	0.0	0.27	0.0	0.01		
4	0.07	0.0	0.0	0.19	0.0	0.0	0.0	0.61	0.0	0.0	0.08	0.07		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.01	0.0		
6	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.36	0.10	0.0		
7	0.04E	0.0	0.0	0.0	0.0	0.00	0.0	0.08	0.0	0.16	0.11	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.10E	0.0	0.0	0.0	0.0	0.20E	0.0	0.02	0.0	0.0	0.28E	0.0		
10	0.11E	0.0	0.30E	0.23	0.18E	0.19	0.0	0.0	0.27	0.0	0.35E	0.0		
11	0.15E	0.0	0.17	0.0	0.03E	0.0	0.06	0.60	0.0	0.0	0.36E	0.0		
12	0.0	0.0	0.84	0.0	0.0	0.0	0.02	0.0	0.0	0.10	0.45E	0.0		
13	2.23E	0.0	0.0	0.0	0.0	0.0	0.79	0.03	0.0	0.06E	0.0	0.10E		
14	0.12E	0.0	0.0	0.0	0.76E	0.0	0.14E	0.53	0.0	0.0	0.0	0.04E		
15	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.72E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.02	0.0		
17	0.0	0.0	0.02E	0.0	0.0	0.28	0.0	0.0	0.0	0.39	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	1.96E	0.31	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	2.92E	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.16	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.51		
23	0.07E	0.0	0.32	0.32	0.02E	0.0	0.04	0.0	0.0	0.0	0.0	0.10		
24	0.14E	0.0	0.0	0.42	0.06E	0.0	0.0	0.0	0.0	0.23	0.13	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.30E	0.42	0.58	0.0	0.26	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.22E	1.10E	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.43		
29	0.0	0.34E	0.0	1.41	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.12	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.43	0.39	2.66	3.94	2.79	2.82	3.64	2.79	0.75	6.76	2.26	1.58		
STA AV	2.31	2.86	3.22	2.95	3.43	2.21	3.79	3.77	3.57	3.07	2.50	2.83		

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period August 1957 through 1968.

1968	MEAN DAILY DISCHARGE (cfs)					BLACKSBURG, VIRGINIA		BRUSH CREEK WATERSHED (13008)				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.021	3.721	1.509	2.317	2.080	1.155	0.597	0.603	0.504	0.355	0.847	1.260
2	1.013	5.230	1.625	1.439	1.747	1.263	1.160	1.404	0.490	0.354	0.847	1.505
3	2.196	3.189	1.365	2.777	1.448	1.984	1.297	0.952	0.426	0.504	0.847	1.177
4	3.842	2.330	1.483	2.297	1.503	1.106	0.972	1.930	0.431	0.496	0.912	1.330
5	1.677	2.004	1.390	2.181	1.322	0.985	0.793	1.046	0.502	0.455	0.967	1.103
6	1.605	1.793	1.333	1.756	1.235	0.935	0.693	0.717	0.513	0.530	0.950	0.985
7	1.494	1.652	1.428	1.577	1.226	0.901	0.639	0.637	0.419	0.864	1.193	0.983
8	1.178	1.492	1.529	1.523	1.167	2.642	0.665	0.631	0.410	0.559	0.958	0.908
9	1.058	1.397	1.813	1.401	1.127	3.204	0.622	0.609	0.412	0.520	0.908	0.853
10	1.180	1.255	2.656	1.736	1.239	2.062	0.631	0.593	0.609	0.526	1.190	0.854
11	1.111	1.129	2.037	1.483	1.337	1.628	0.725	1.466	0.503	0.514	1.181	0.832
12	1.070	1.108	5.675	1.337	1.213	1.285	0.708	0.866	0.442	0.542	1.423	0.947
13	1.205	1.013	3.144	1.277	1.097	1.125	1.959	0.711	0.402	0.616	1.370	1.173
14	1.343	1.027	1.851	1.234	2.442	0.996	1.350	1.509	0.389	0.572	1.619	1.372
15	1.208	1.160	1.658	1.564	1.581	0.917	0.751	1.172	0.371	0.550	2.650	0.934
16	1.136	1.165	3.439	1.236	1.240	0.864	0.653	1.026	0.388	0.670	4.311	1.145
17	1.103	1.161	3.926	1.193	1.136	1.264	0.610	0.741	0.358	1.338	2.568	0.779
18	1.136	1.075	2.261	1.192	1.117	1.162	0.730	0.625	0.371	3.799	3.331	0.939
19	1.200	1.080	1.875	1.166	1.040	1.011	0.663	0.588	0.398	20.855	1.926	1.119
20	1.269	1.134	1.714	1.142	1.007	0.866	0.568	0.577	0.380	2.355	1.496	1.044
21	2.083	1.030	1.612	1.106	0.998	0.781	0.518	0.527	0.346	1.389	1.348	0.937
22	2.148	0.957	1.524	1.095	0.965	0.770	0.569	0.494	0.339	1.158	1.272	1.756
23	3.569	0.952	2.526	1.291	0.964	0.744	0.797	0.474	0.323	1.049	1.227	1.822
24	2.519	0.985	1.705	2.416	0.981	0.752	0.551	0.456	0.318	1.089	1.314	1.081
25	1.691	0.987	1.583	1.280	1.018	0.774	1.551	0.428	0.313	1.226	1.259	0.929
26	1.391	0.971	1.421	1.163	1.093	0.989	1.208	0.413	0.451	0.965	1.132	0.908
27	1.320	1.004	1.357	1.455	4.486	1.008	1.741	0.426	0.475	0.926	1.104	1.046
28	1.683	1.055	1.338	1.325	1.654	0.773	0.805	0.385	0.414	0.937	1.133	2.542
29	2.789	0.936	1.319	6.336	1.467	0.685	0.669	0.400	0.382	0.847	1.065	1.379
30	5.202		1.312	3.496	1.424	0.635	0.647	0.399	0.379	0.847	1.010	1.156
31	5.071		1.332		1.171		0.644	0.401		0.847		1.355
MEAN	1.8551	1.5169	1.9593	1.7596	1.4041	1.1755	0.8543	0.7486	0.4152	1.5565	1.4451	1.1661
INCHES	1.533	1.173	1.619	1.407	1.160	0.940	0.706	0.619	0.332	1.286	1.156	0.964
STA AV	1.667	1.907	2.365	1.873	1.560	0.958	0.910	0.886	1.109	1.216	1.224	1.538

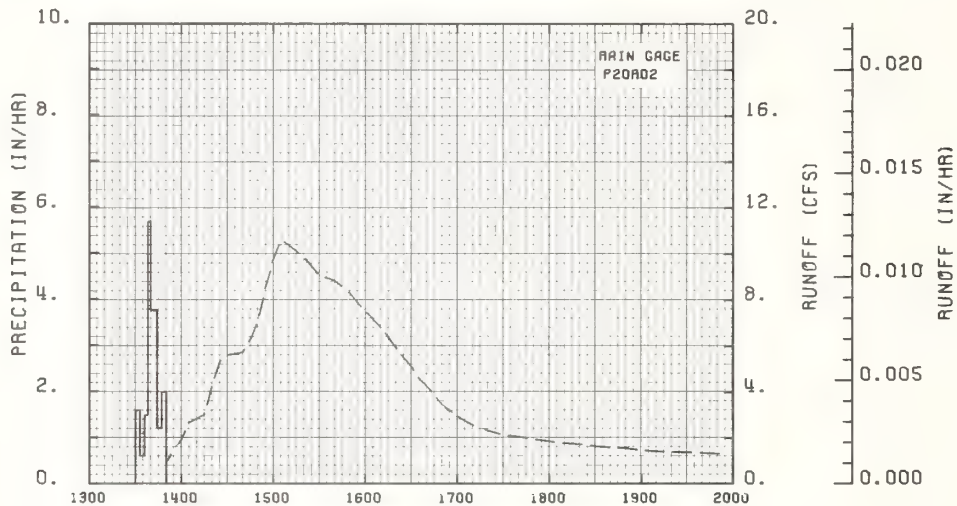
NOTES: To convert CFS to IN/DAY, multiply by 0.026652. STA AV based on record period August 1957 through 1968.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 25 - 26, 1968										
7-25	RG P20R02 0.0	0.009	7-25	RG P20R02			7-25	1350	0.94	0.0
				1333	1.6000	0.08		1355	1.48	0.0001
				1336	0.6000	0.11		1400	1.95	0.0003
				1338	1.5000	0.16		1405	2.69	0.0005
				1340	5.6999	0.35		1415	3.04	0.0010
WATERSHED CONDITIONS:				1344	3.7500	0.60		1420	4.25	0.0013
Permanent pasture of native				1347	1.2000	0.66		1425	5.32	0.0017
grasses, good cover, 33%;				1350	2.0000	0.76		1430	5.59	0.0022
woods, mixture of pine and								1440	5.73	0.0032
hardwood with considerable								1445	6.27	0.0038
undergrowth, good cover,										
34%; hay, 20%; corn, 4%;								1450	7.11	0.0044
idle land, 7%; roads, 2%.								1455	8.56	0.0051
								1500	9.79	0.0060
								1505	10.58	0.0069
								1520	9.80	0.0097
								1530	9.02	0.0115
								1540	8.78	0.0131
								1550	8.22	0.0147
								1600	7.46	0.0162
								1610	6.78	0.0175
								1615	6.33	0.0181
								1620	5.89	0.0187
								1625	5.46	0.0192
								1630	5.07	0.0197
								1635	4.54	0.0201
								1640	4.23	0.0205
								1645	3.84	0.0209
								1650	3.39	0.0212
								1655	3.15	0.0215
								1700	2.90	0.0218
								1710	2.52	0.0223
								1720	2.29	0.0227
								1730	2.10	0.0231
								1740	2.01	0.0235
								1750	1.91	0.0239

NOTES: To convert CFS to IN/HR, multiply by 0.0011105.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 25 - 26, 1968 (CONTINUED)											
							7-25	1800	1.81	0.0242	
								1815	1.71	0.0247	
								1830	1.61	0.0252	
								1850	1.51	0.0258	
								1905	1.41	0.0262	
								1930	1.34	0.0268	
								1955	1.27	0.0274	
								2035	1.20	0.0283	
								2130	1.13	0.0295	
								2310	1.06	0.0315	
								2400	0.99	0.0325	
							7-26	220	0.99	0.0351	
								840	0.92	0.0418	

NOTES: To convert CFS to IN/HR, multiply by 0.0011105.



EVENT OF JULY 25 - 26, 1968
BLACKSBURG, VIRGINIA BRUSH CREEK WATERSHED (13008)

BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)

LOCATION: Halifax County, Va., on Route No. 58, 1.1 mi. east of the Halifax-Pittsylvania County Line, Dan River.

AREA: 182.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.12	0.72	3.20	2.55	4.25	3.82	2.29	1.44	1.48	1.76	4.14	1.97	30.75			
	Q	1.489	0.355	3.271	0.329	0.509	0.540	0.127	0.102	0.091	0.161	0.323	0.300	7.595			
STA AV	P	3.03	3.13	3.35	2.91	3.87	2.67	4.14	4.28	2.53	2.95	2.62	3.07	38.54			
	Q	1.681	1.850	2.161	1.203	0.828	0.349	0.502	0.537	0.272	0.642	0.629	1.155	11.809			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968		3-12	0.171	3-12	0.159	3-12	0.296	3-12	0.650	3-12	0.944	3-12	1.085	3-12	1.161	3-12	2.255
MAXIMUMS FOR PERIOD OF RECORD																	
		7-11 1965	2.290	7-11 1965	1.610	7-11 1965	1.920	7-11 1965	2.070	7-11 1965	2.100	7-11 1965	2.170	12-28 1958	2.250	3- 5 1963	3.410

NOTES: Watershed conditions: Farm woods, predominantly hardwood, 17%; pasture, native grass mixture, usually good to excellent cover, 55%; small grain, 1%; corn, 6%; hay, 20%; idle, 1%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.9-5. Precipitation Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from January 1958 thru 1968. For long-time precipitation records, see U.S. Weather Bureau records at Danville Bridge St., Virginia.

1968 DAILY PRECIPITATION (inches)													
BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37
2	0.0	0.29	0.0	0.0	0.0	0.0	0.55	0.0	0.96	0.24E	0.0	0.0	0.04
3	0.16	0.0	0.0	0.57	0.0	0.0	0.76	0.15E	0.0	0.0	0.0	0.0	0.03
4	0.14	0.0	0.0	0.09	0.31	0.0	0.22E	0.04	0.0	0.0	0.0	0.08	0.12
5	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.02	0.03	0.0	0.0	0.0	0.0
6	0.41M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.06E	0.06	0.0	0.0
7	0.03M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30E	0.22	0.02E	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0
9	0.03M	0.0	0.0	0.0	0.0	0.0	0.11	0.06E	0.03E	0.0	0.0	0.46M	0.0
10	0.72M	0.0	0.13	0.01	0.06	0.0	0.0	0.01E	0.0	0.0	0.0	0.45M	0.0
11	0.08M	0.0	0.06	0.01	0.0	0.0	0.26	0.0	0.05E	0.0	0.0	0.43S	0.0
12	0.07M	0.0	1.78	0.0	0.31	0.0	0.0	0.07E	0.0	0.0	0.12	1.30S	0.0
13	1.16M	0.0	0.03	0.0	0.0	0.0	0.0	0.24E	0.0	0.0	0.13	0.0	0.0
14	0.10M	0.0	0.0	0.0	0.38	0.0	0.46E	0.07E	0.0	0.0	0.0	0.0	0.44
15	0.0	0.0	0.0	0.17	0.01	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.46	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.07	0.0
17	0.0	0.0	0.13	0.0	0.0	0.0	1.36	0.0	0.0	0.0	0.0	0.18	0.0
18	0.0	0.0	0.0	0.0	0.03E	0.19	0.0	0.0	0.0	0.0	0.46	0.77	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.25	0.0	0.56	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71
23	0.0	0.0	0.48	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.18M	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.12	0.0
25	0.03M	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.25	0.14E	0.42	0.0	0.96	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	2.85	0.01E	0.30	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.24E
29	0.0	0.42M	0.0	0.48L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.01E	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		3.12	0.72	3.20	2.55	4.25	3.82	2.29	1.44	1.48	1.76	4.14	1.97
STA AV		3.03	3.13	3.35	2.91	3.87	2.67	4.14	4.28	2.53	2.95	2.62	3.07

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period January 1958 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.161	0.142	0.092	0.208	0.047	0.033	0.032	0.027	0.017	0.031	0.035	0.062
2	0.121	0.303	0.072	0.096	0.035	0.180	0.028	0.089	0.025	0.030	0.035	0.095
3	0.139	0.189	0.061	0.171	0.031	1.493	0.033	0.043	0.018	0.032	0.031	0.053
4	0.310	0.139	0.061	0.109	0.032	0.100	0.042	0.032	0.019	0.030	0.038	0.048
5	0.121	0.119	0.060	0.225	0.039	0.072	0.034	0.033	0.019	0.030	0.042	0.046
6	0.400	0.114	0.060	0.125	0.026	0.062	0.032	0.030	0.026	0.037	0.036	0.048
7	0.324	0.111	0.060	0.092	0.026	0.063	0.029	0.027	0.021	0.045	0.055	0.045
8	0.120	0.105	0.055	0.080	0.026	0.110	0.028	0.026	0.019	0.033	0.042	0.045
9	0.111	0.099	0.050	0.076	0.026	0.105	0.030	0.026	0.018	0.031	0.047	0.045
10	0.122	0.090	0.051	0.068	0.026	0.099	0.033	0.025	0.020	0.034	0.131	0.045
11	0.122	0.078	0.055	0.076	0.027	0.089	0.035	0.031	0.018	0.038	0.059	0.041
12	0.111	0.068	7.791	0.062	0.052	0.075	0.034	0.027	0.018	0.042	0.555	0.044
13	1.329	0.073	1.079	0.061	0.042	0.054	0.041	0.025	0.016	0.042	0.085	0.053
14	2.285	0.068	0.307	0.058	0.059	0.046	0.033	0.023	0.019	0.042	0.054	0.130
15	0.558	0.075	0.283	0.072	0.053	0.043	0.030	0.022	0.019	0.041	0.053	0.062
16	0.279	0.073	1.405	0.053	0.040	0.043	0.024	0.026	0.018	0.042	0.052	0.050
17	0.254	0.073	5.503	0.052	0.031	0.512	0.024	0.020	0.015	0.046	0.054	0.045
18	0.523	0.064	0.652	0.053	0.035	0.318	0.025	0.018	0.017	0.063	0.404	0.047
19	0.797	0.057	0.309	0.052	0.033	0.111	0.027	0.027	0.017	0.092	0.092	0.053
20	0.683	0.068	0.237	0.053	0.031	0.078	0.024	0.021	0.020	0.050	0.061	0.053
21	0.470	0.072	0.181	0.049	0.029	0.058	0.022	0.018	0.022	0.036	0.055	0.045
22	0.261	0.056	0.162	0.045	0.024	0.052	0.023	0.019	0.020	0.034	0.053	0.177
23	0.238	0.056	2.947	0.048	0.024	0.050	0.022	0.018	0.020	0.035	0.047	0.188
24	0.217	0.057	0.860	0.162	0.024	0.045	0.024	0.018	0.023	0.036	0.048	0.072
25	0.193	0.057	0.567	0.058	0.026	0.046	0.049	0.016	0.020	0.041	0.057	0.060
26	0.211	0.057	0.553	0.049	0.026	0.039	0.040	0.014	0.088	0.036	0.048	0.056
27	0.245	0.057	0.467	0.045	2.636	0.041	0.047	0.014	0.028	0.035	0.055	0.061
28	0.212	0.068	0.233	0.045	0.199	0.033	0.037	0.015	0.034	0.040	0.050	0.130
29	0.165	0.126	0.317	0.095	0.094	0.036	0.030	0.015	0.031	0.035	0.047	0.070
30	0.149		0.283	0.077	0.055	0.043	0.027	0.016	0.028	0.035	0.045	0.057
31	0.156		0.202		0.039		0.027	0.015		0.035		0.267
MEAN	0.3673	0.0936	0.8069	0.0838	0.1255	0.1376	0.0312	0.0251	0.0231	0.0397	0.0822	0.0739
INCHES	1.489	0.355	3.271	0.329	0.509	0.540	0.127	0.102	0.091	0.161	0.323	0.300
STA AV	1.681	1.850	2.161	1.203	0.828	0.349	0.502	0.537	0.272	0.642	0.629	1.155

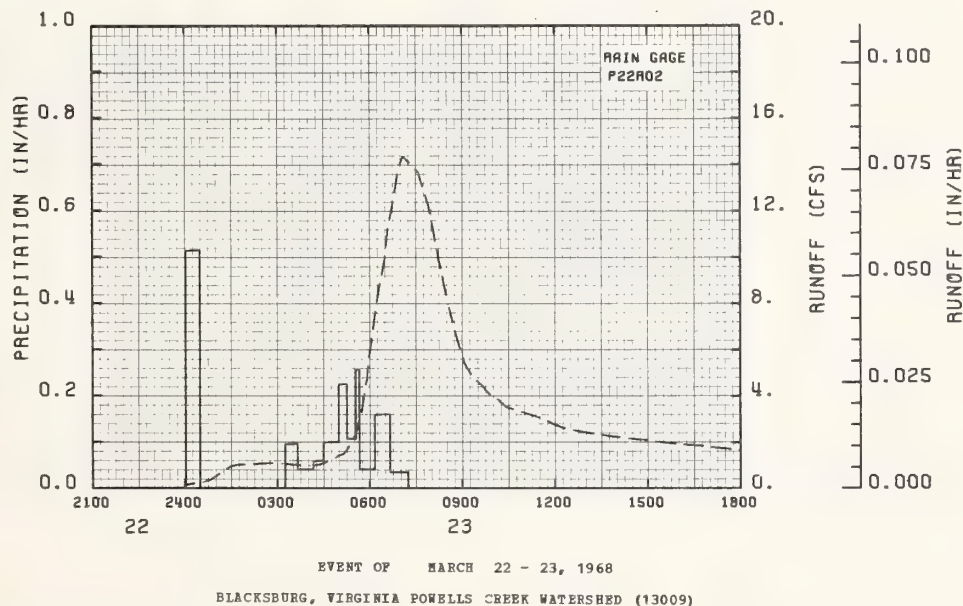
NOTES: To convert CPS to IN/DAY, multiply by 0.130776. STA AV based on record period January 1958 through 1968.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 22 - 23, 1968											
RG P22R02			RG P22R02								
3-23	0.0		3-23	2	0.0	0.0	3-22	2400	0.15	0.0	
3-22		0.021		30	0.5142	0.24	3-23	10	0.20	0.0002	
				315	0.0	0.24		20	0.22	0.0004	
				340	0.0960	0.28		35	0.26	0.0007	
				410	0.0400	0.30		40	0.33	0.0008	
WATERSHED CONDITIONS:				430	0.0600	0.32		50	0.40	0.0011	
Farm woods, predominantly				500	0.1000	0.37		55	0.48	0.0013	
hardwood, 17%; pasture,				516	0.2250	0.43		105	0.62	0.0018	
native grass mixture, usually				533	0.1059	0.46		115	0.73	0.0024	
good to excellent cover, 55%;				540	0.2571	0.49		120	0.85	0.0028	
small grain, 1%; corn, 6%;											
hay, 20%; idle, 1%.				610	0.0400	0.51		130	0.97	0.0036	
				640	0.1600	0.59		140	1.03	0.0045	
				715	0.0343	0.61		245	1.09	0.0108	
								320	1.02	0.0142	
								355	0.96	0.0174	
								420	1.03	0.0197	
								430	1.10	0.0207	
								440	1.18	0.0217	
								450	1.27	0.0228	
								500	1.43	0.0240	
								510	1.52	0.0253	
								520	1.83	0.0268	
								525	2.03	0.0277	
								530	2.26	0.0287	
								535	2.51	0.0298	
								540	2.99	0.0310	
								545	3.35	0.0324	
								550	4.13	0.0341	
								555	4.73	0.0361	
								600	5.80	0.0385	
								605	6.55	0.0413	
								610	7.41	0.0445	
								620	8.82	0.0519	
								630	9.89	0.0604	
								635	11.06	0.0652	

NOTES: To convert CPS to IN/HR, multiply by 0.0054491.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA POWELLS CREEK WATERSHED (13009)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 22 - 23, 1968 (CONTINUED)										
							3-23	645	12.22	0.0758
								655	13.63	0.0875
								705	14.33	0.1002
								735	13.61	0.1383
								745	12.90	0.1503
								755	12.18	0.1617
								805	11.00	0.1722
								815	9.83	0.1817
								825	8.77	0.1901
								835	7.83	0.1976
								845	6.88	0.2043
								855	6.11	0.2102
								905	5.35	0.2154
								915	4.97	0.2201
								925	4.67	0.2245
								940	4.38	0.2307
								950	4.08	0.2345
								1010	3.78	0.2416
								1025	3.48	0.2465
								1050	3.30	0.2542
								1115	3.12	0.2615
								1140	2.94	0.2684
								1155	2.76	0.2723
								1215	2.58	0.2771
								1240	2.46	0.2828
								1310	2.34	0.2893
								1345	2.23	0.2966
								1430	2.11	0.3055
								1515	1.99	0.3139
								1600	1.89	0.3218
								1645	1.80	0.3293
								1725	1.70	0.3356
								1800	1.60	0.3408
								1835	1.50	0.3457
								1930	1.42	0.3530
								2035	1.34	0.3611

NOTES: To convert CFS to IN/HR, multiply by 0.0054491.



BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)

LOCATION: Halifax County, Va., 3.5 mi. SW of Tuberville, Va., Winns Creek, Dan River.

AREA: 1471.00 acres 2.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)										
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.74	0.71	3.52	2.53	4.73	3.29	3.98	0.98	1.03	2.46	3.80	2.40	33.17		
	Q	1.150	0.445	1.049	0.522	0.752	0.558	0.295	0.162	0.094	0.172	0.298	0.310	5.807		
STA AV	P	3.25	3.30	3.34	2.93	3.71	3.03	3.94	4.33	2.76	3.08	2.54	3.09	39.29		
	Q	1.005	1.250	1.332	0.993	0.877	0.587	0.472	0.560	0.372	0.634	0.518	0.555	9.155		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days	
							Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	3-12	0.058	3-12	0.054	3-12	0.098	3-12	0.252	3-12	0.333	3-12	0.396	3-12	0.451	3-12	0.673
MAXIMUMS FOR PERIOD OF RECORD																
	10-10	1.120	10-10	0.710	10-10	1.030	10-10	1.410	10-10	1.510	10-10	1.580	10-10	1.620	10-10	1.910
	1959		1959		1959		1959		1959		1959		1959		1959	

NOTES: Watershed conditions: Farm woods, mixture of hardwoods and conifers, with pine predominating, 58%; small grain 3%; corn, 5%; tobacco, 3%; alfalfa and other hay crops, 6%; soy beans, 1%; pasture, native grass mixture, usually fair cover, 8%; idle, 16%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 998, p. 13.10-8. Precipitation: Thiessen weighted from R-1, R-2, and R-3. Station averages determined from continuous records from Jan. 1958 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Halifax (1 mile N), Virginia.

1968	DAILY PRECIPITATION (inches)												BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.03N	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35		
2	0.0	0.30	0.0	0.0	0.0	0.80	0.0	0.67E	0.06E	0.0	0.0	0.06		
3	0.20	0.0	0.0	0.59E	0.00	0.68	0.10	0.0	0.0	0.0	0.0	0.15		
4	0.14	0.0	0.0	0.15	0.11	0.0	0.22	0.04E	0.0	0.0	0.12	0.07		
5	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0		
6	0.38M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.02	0.0	0.0		
7	0.05M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.14	0.01		
8	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.04M	0.0	0.0	0.0	0.0	0.06E	0.10	0.0	0.0	0.0	0.54M	0.0		
10	0.84M	0.0	0.12	0.0	0.10	0.0	0.0	0.0	0.16	0.0	0.52M	0.0		
11	0.14M	0.0	0.04	0.0	0.0	0.0	0.13	0.08E	0.0	0.0	0.37S	0.0		
12	0.11M	0.0	2.11	0.0	0.29	0.0	0.01	0.0	0.0	0.07E	1.25S	0.0		
13	1.39M	0.0	0.03	0.0	0.0	0.0	1.73	0.0	0.0	0.0	0.0	0.0		
14	0.10M	0.0	0.0	0.0	0.46	0.0	0.56	0.08	0.0	0.0	0.0	0.39		
15	0.0	0.0	0.0	0.13E	0.01	0.0	0.0	0.12	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.43	0.0	0.0	0.26	0.0	0.0	0.0	0.36	0.04E	0.0		
17	0.0	0.0	0.21	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.16	0.0		
18	0.0	0.0	0.0	0.0	0.05E	0.23	0.0	0.0	0.0	0.48	0.56	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	1.21	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76		
23	0.0	0.0	0.42	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.23M	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.06E	0.11	0.0		
25	0.08M	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.33	0.01	0.01	0.0	0.74	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	3.34	0.07	0.50	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.02	0.0	0.62		
29	0.0	0.41N	0.0	0.42E	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.04	0.0	0.0	0.0	0.01E	0.8	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.74	0.71	3.52	2.53	4.73	3.29	3.98	0.98	1.03	2.46	3.80	2.40		
STA AV	3.25	3.30	3.34	2.93	3.71	3.03	3.94	4.33	2.76	3.08	2.54	3.09		

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period January 1958 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.314	1.226	0.859	1.033	0.841	0.919	0.472	0.439	0.217	0.215	0.383	0.498
2	1.139	1.416	0.794	0.959	0.815	2.409	0.467	0.631	0.247	0.210	0.377	0.663
3	1.089	1.424	0.763	1.353	0.778	7.989	0.482	0.656	0.192	0.189	0.398	0.556
4	1.480	1.222	0.733	1.221	0.768	1.850	0.630	0.439	0.185	0.181	0.391	0.612
5	1.126	1.134	0.758	1.735	0.807	1.246	0.569	0.414	0.179	0.202	0.417	0.513
6	1.241	1.113	0.757	1.756	0.735	1.023	0.514	0.400	0.208	0.221	0.388	0.500
7	1.686	1.079	0.738	1.388	0.730	0.975	0.484	0.367	0.219	0.333	0.453	0.500
8	1.175	1.063	0.721	1.288	0.710	1.237	0.464	0.347	0.177	0.256	0.417	0.496
9	1.085	0.994	0.758	1.172	0.706	1.096	0.472	0.342	0.174	0.257	0.444	0.468
10	1.131	0.998	0.770	1.113	0.721	0.976	0.513	0.331	0.235	0.264	1.063	0.459
11	1.151	0.897	0.732	1.077	0.726	0.878	0.566	0.381	0.214	0.281	0.522	0.452
12	0.984	0.918	22.362	1.020	0.812	0.855	0.557	0.396	0.177	0.301	2.868	0.459
13	8.141	0.837	5.230	1.013	0.696	0.769	2.633	0.347	0.176	0.286	0.870	0.502
14	14.844	0.891	2.212	0.974	0.808	0.711	0.769	0.351	0.168	0.321	0.630	0.664
15	4.089	0.911	1.737	1.017	0.837	0.698	0.561	0.397	0.166	0.317	0.545	0.500
16	2.253	0.878	1.623	0.941	0.721	0.669	0.499	0.318	0.163	0.528	0.530	0.468
17	1.752	0.862	4.709	0.894	0.695	1.550	0.494	0.307	0.148	0.418	0.506	0.480
18	1.623	0.807	2.270	0.925	0.675	1.179	0.490	0.281	0.164	0.472	1.047	0.462
19	1.902	0.816	1.697	0.874	0.643	0.849	0.484	0.270	0.174	0.493	0.772	0.477
20	2.237	0.842	1.496	0.881	0.621	0.743	0.472	0.270	0.154	0.463	0.578	0.497
21	2.848	0.811	1.319	0.855	0.609	0.678	0.445	0.251	0.152	0.316	0.499	0.472
22	2.518	0.787	1.219	0.871	0.592	0.658	0.424	0.235	0.141	0.314	0.500	0.646
23	2.197	0.768	1.666	0.833	0.579	0.641	0.396	0.234	0.135	0.346	0.470	1.044
24	2.093	0.777	1.288	1.507	0.557	0.610	0.383	0.228	0.134	0.361	0.517	0.661
25	1.595	0.777	1.195	0.984	0.561	0.592	0.529	0.210	0.128	0.371	0.511	0.583
26	1.371	0.768	1.143	0.883	0.607	0.571	0.727	0.198	0.482	0.339	0.459	0.531
27	1.350	0.786	1.086	0.854	20.981	0.576	0.870	0.198	0.275	0.344	0.480	0.551
28	1.466	0.783	1.075	0.829	3.210	0.526	0.525	0.197	0.208	0.386	0.466	1.565
29	1.461	0.948	1.059	0.979	1.677	0.521	0.449	0.198	0.207	0.379	0.484	0.925
30	1.385		1.020	1.004	1.213	0.506	0.433	0.192	0.214	0.379	0.459	0.734
31	1.321		1.027		1.015		0.473	0.199		0.379		1.234
MEAN	2.2918	0.9491	2.0908	1.0744	1.4983	1.1499	0.5887	0.3234	0.1937	0.3427	0.6149	0.6183
INCHES	1.150	0.445	1.049	0.522	0.752	0.558	0.295	0.162	0.094	0.172	0.298	0.310
STA AV	1.005	1.250	1.332	0.993	0.877	0.587	0.472	0.560	0.372	0.634	0.518	0.555

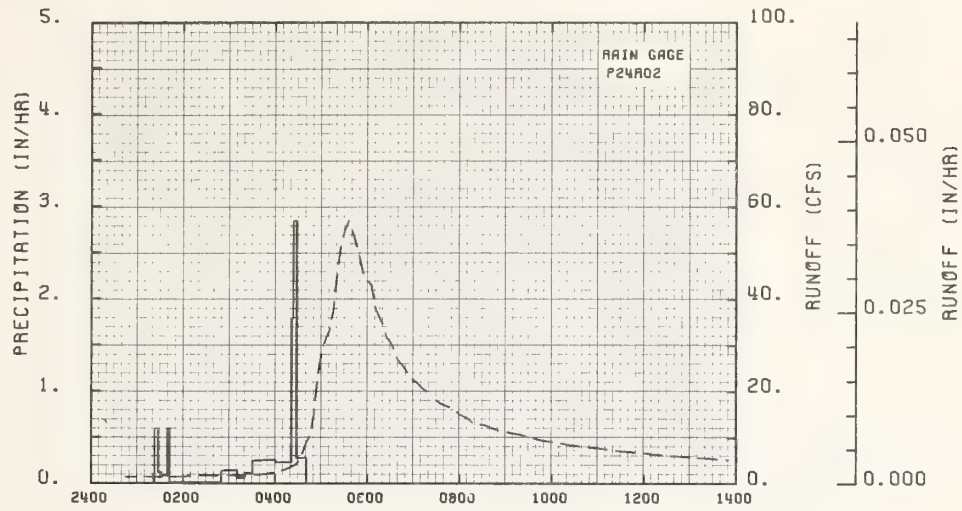
NOTES: To convert CFS to IN/DAY, multiply by 0.016178. STA AV based on record period January 1958 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 3, 1968												
6- 3	RG P24R02 0.0	0.001	6- 3	RG P24R02 122	0.0	0.0	6- 3	45	1.48	0.0		
				127	0.6002	0.05		150	1.53	0.0011		
				132	0.1200	0.06		200	1.65	0.0013		
				139	0.0857	0.07		215	1.74	0.0016		
				142	0.6000	0.10		230	1.78	0.0019		
WATERSHED CONDITIONS:												
Farm woods, mixture of				249	0.0090	0.11		240	1.67	0.0021		
hardwoods and conifers				310	0.1429	0.16		310	1.82	0.0027		
with pine predominating, 58%;				320	0.0600	0.17		330	1.93	0.0031		
small grain, 3%; corn, 5%;				330	0.1200	0.19		345	2.08	0.0034		
tobacco, 3%; alfalfa and				344	0.2572	0.25		355	2.37	0.0036		
other hay crops, 6%; soy												
beans, 1%; pasture native				400	0.2625	0.32		405	2.68	0.0039		
grass mixture, usually fair				421	0.2286	0.40		410	3.01	0.0041		
cover, 8%; idle, 16%.				423	1.8000	0.46		415	3.32	0.0043		
				427	2.8500	0.65		425	4.16	0.0047		
				440	0.2769	0.71		430	4.86	0.0050		
								435	6.46	0.0053		
								440	9.07	0.0057		
								445	10.61	0.0063		
								450	15.19	0.0070		
								455	23.76	0.0081		
								500	28.35	0.0096		
								505	31.28	0.0113		
								510	33.37	0.0131		
								515	37.39	0.0151		
								520	45.54	0.0174		
								525	52.02	0.0201		
								530	55.01	0.0231		
								535	57.09	0.0262		
								545	51.72	0.0323		
								555	44.51	0.0377		
								605	42.82	0.0426		
								610	37.80	0.0449		
								620	34.21	0.0489		
								625	31.31	0.0507		
								630	30.40	0.0524		

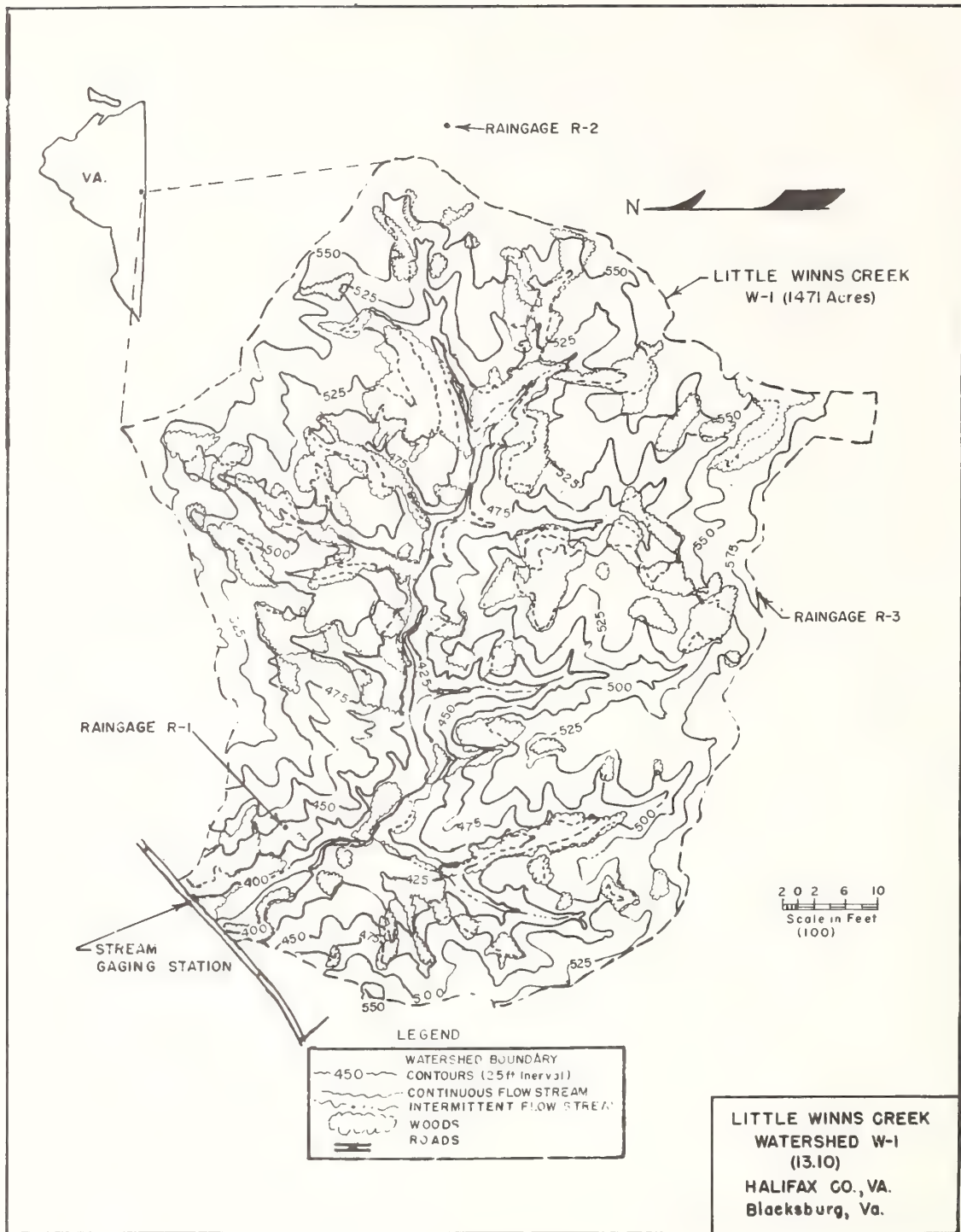
NOTES: To convert CFS to IN/HR, multiply by 0.0006741.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 3, 1968 (CONTINUED)										
							6- 3	635	28.44	0.0541
								640	26.40	0.0556
								645	25.58	0.0571
								650	24.44	0.0585
								655	22.98	0.0598
								705	21.65	0.0623
								710	20.69	0.0635
								720	19.32	0.0657
								725	18.41	0.0668
								735	17.25	0.0688
								745	16.46	0.0707
								755	15.57	0.0725
								800	14.79	0.0734
								810	14.04	0.0750
								815	13.32	0.0758
								825	12.74	0.0773
								835	12.42	0.0787
								845	11.74	0.0801
								855	11.15	0.0814
								905	10.88	0.0826
								915	10.56	0.0838
								925	10.24	0.0850
								935	9.88	0.0861
								945	9.28	0.0872
								955	9.05	0.0882
								1005	8.78	0.0892
								1015	8.50	0.0902
								1025	8.22	0.0911
								1035	7.99	0.0920
								1050	7.75	0.0933
								1105	7.49	0.0946
								1115	7.22	0.0954
								1125	6.98	0.0962
								1140	6.77	0.0974
								1155	6.55	0.0985
								1210	6.31	0.0996
								1220	6.09	0.1003
								1240	5.88	0.1016
								1255	5.68	0.1026
								1315	5.48	0.1039
								1330	5.27	0.1048
								1350	5.07	0.1060
								1405	4.88	0.1068
								1430	4.70	0.1081
								1445	4.52	0.1089
								1510	4.35	0.1101
								1535	4.17	0.1113
								1600	3.99	0.1124
								1620	3.84	0.1133
								1650	3.69	0.1146
								1715	3.52	0.1156
								1735	3.37	0.1164
								1805	3.22	0.1175
								1840	3.09	0.1187
								1920	2.95	0.1201
								2000	2.82	0.1214
								2045	2.69	0.1228
								2140	2.56	0.1244

NOTES: To convert CFS to IN/HR, multiply by 0.0006741.



EVENT OF JUNE 3, 1968
BLACKSBURG, VIRGINIA LITTLE WINNS CREEK WATERSHED (13010)



BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)

LOCATION: Brunswick County, Va., on Route No. 58, 4 mi. W. of Lawrenceville, Va., Meherrin River.

AREA: 555.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	2.68	1.41	3.20	2.82	4.35	3.90	3.95	4.27	0.31	3.14	4.13	2.43	36.57															
	Q	0.814	0.361	0.980	0.468	0.405	0.385	0.175	0.215	0.035	0.057	0.260	0.259	4.414															
STA AV	P	3.00	3.35	3.05	2.37	3.58	4.19	4.12	3.90	2.86	2.73	2.58	3.00	38.74															
	Q	0.918	1.215	1.331	0.897	0.882	0.653	0.452	0.356	0.285	0.360	0.487	0.714	8.552															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.				12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.											
1968		6-17	0.081	6-17	0.047	6-17	0.071	1-13	0.105	1-13	0.159	1-13	0.223	1-13	0.289	3-12	0.561												
MAXIMUMS FOR PERIOD OF RECORD																													
		6- 7	0.220	6- 7	0.190	5- 8	0.340	5- 6	0.710	5- 6	0.980	5- 6	1.450	5- 5	2.090	4-30	2.860												
		1961		1961		1958		1958		1958		1958		1958		1958													

NOTES: Watershed conditions: Mixed cover, farm woods, mixture of hardwoods and conifers, 57%; permanent pasture, usually a good cover of native grass and clover mixture, 13%; alfalfa and other hay crops, 5%; corn, 3%; tobacco, 2%; small grain, 1%; roads, 1%; soy beans, 3%; idle, 15%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 13.11-6. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from April 1958 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Emporia (1 mile WNW), Virginia.

1968	DAILY PRECIPITATION (inches)					BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)																						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																
1	0.0	0.0	0.0	0.08	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.13																
2	0.0	0.51E	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.24																
3	0.28	0.0	0.0	0.00	0.0	0.27	0.15	0.26	0.0	0.20E	0.0	0.18																
4	0.28	0.0	0.0	0.0	0.0	0.0	0.55	0.79	0.0	0.01	0.0	0.15																
5	0.0	0.0	0.0	0.33	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
6	0.31M	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.01E	0.02	0.0	0.0																
7	0.04M	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.38	0.22	0.10																
8	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.11E																
9	0.07M	0.0	0.0	0.0	0.0	0.04	0.14	0.0	0.18	0.0	0.67	0.0																
10	0.45M	0.0	0.16	0.06	0.0	0.10	0.0	0.51	0.06	0.0	0.66	0.0																
11	0.03M	0.0	0.02	0.92	0.01	0.00	1.10	0.44	0.0	0.0	0.41M	0.0																
12	0.0	0.0	1.52	0.0	0.34	0.0	0.0	0.0	0.0	0.15	0.83M	0.0																
13	0.97M	0.0	0.04E	0.0	0.0	0.0	0.12	0.0	0.0	0.45	0.0	0.0																
14	0.02	0.0	0.0	0.0	0.81	0.0	0.53E	0.40	0.0	0.0	0.0	0.53																
15	0.0	0.0	0.0	0.30	0.00	0.0	0.0	0.86E	0.0	0.0	0.0	0.0																
16	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.75E	0.0	0.30E	0.20	0.0																
17	0.0	0.0	1.06	0.0	0.0	2.04	0.29	0.0	0.0	0.0	0.00	0.0																
18	0.0	0.0	0.0	0.0	0.22E	0.06	0.0	0.0	0.0	0.39E	0.91	0.0																
19	0.0	0.0	0.0	0.0	0.04E	0.0	0.72	0.0	0.0	0.99E	0.0	0.0																
20	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0																
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58																
23	0.0	0.0	0.31	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09																
24	0.05M	0.0	0.0	0.86E	0.0	0.74E	0.0	0.0	0.0	0.04	0.21	0.0																
25	0.12M	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.03	0.01	0.0																
26	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.06	0.0	0.0	0.0																
27	0.0	0.0	0.0	0.0	1.64	0.0	0.25	0.0	0.0	0.0	0.0	0.0																
28	0.0	0.0	0.0	0.0	0.32	0.0	0.07	0.0	0.0	0.19	0.0	0.31																
29	0.0	0.90M	0.0	0.22	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
30	0.04	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
TOTAL		2.68	1.41	3.20	2.82	4.35	3.90	3.95	4.27	0.31	3.14	4.13	2.43															
STA AV		3.00	3.35	3.05	2.37	3.58	4.19	4.12	3.90	2.86	2.73	2.58	3.00															

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period April 1958 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.358	0.298	0.400	0.390	0.290	0.257	0.116	0.075	0.058	0.017	0.057	0.128
2	0.307	0.430	0.461	0.378	0.292	0.220	0.105	0.070	0.056	0.013	0.059	0.190
3	0.313	0.526	0.437	0.334	0.271	0.281	0.115	0.078	0.048	0.021	0.058	0.174
4	0.795	0.389	0.337	0.307	0.270	0.219	0.194	0.164	0.045	0.015	0.064	0.198
5	0.470	0.338	0.326	0.335	0.297	0.184	0.137	0.119	0.044	0.009	0.063	0.186
6	0.413	0.325	0.302	0.346	0.304	0.157	0.130	0.085	0.043	0.013	0.063	0.161
7	0.621	0.324	0.265	0.307	0.238	0.170	0.117	0.078	0.044	0.033	0.111	0.151
8	0.438	0.307	0.272	0.307	0.211	0.210	0.107	0.086	0.032	0.016	0.077	0.160
9	0.377	0.292	0.294	0.292	0.213	0.201	0.119	0.067	0.036	0.017	0.080	0.148
10	0.386	0.297	0.313	0.292	0.205	0.205	0.123	0.112	0.050	0.015	0.342	0.148
11	0.359	0.268	0.290	0.851	0.193	0.190	0.318	0.162	0.040	0.019	0.142	0.138
12	0.307	0.250	2.992	0.515	0.230	0.183	0.213	0.099	0.028	0.023	0.963	0.138
13	0.934	0.266	1.840	0.408	0.200	0.157	0.179	0.081	0.024	0.072	0.342	0.148
14	4.872	0.254	0.881	0.370	0.335	0.140	0.160	0.115	0.021	0.043	0.192	0.292
15	1.412	0.277	0.636	0.429	0.372	0.136	0.136	0.613	0.018	0.037	0.160	0.250
16	0.818	0.265	0.582	0.362	0.269	0.127	0.122	1.261	0.018	0.034	0.156	0.205
17	0.613	0.277	3.267	0.323	0.219	2.547	0.144	0.351	0.019	0.024	0.157	0.186
18	0.528	0.258	1.894	0.307	0.235	0.659	0.117	0.190	0.024	0.029	0.797	0.170
19	0.481	0.253	1.002	0.302	0.201	0.364	0.176	0.151	0.020	0.209	0.378	0.176
20	0.435	0.255	0.738	0.304	0.181	0.280	0.164	0.136	0.016	0.096	0.229	0.170
21	0.416	0.245	0.618	0.301	0.167	0.217	0.112	0.120	0.019	0.052	0.186	0.161
22	0.402	0.234	0.568	0.277	0.161	0.203	0.105	0.113	0.012	0.048	0.170	0.192
23	0.378	0.235	0.647	0.278	0.151	0.180	0.102	0.105	0.013	0.049	0.160	0.362
24	0.356	0.246	0.577	0.637	0.148	0.297	0.090	0.097	0.013	0.049	0.149	0.249
25	0.336	0.231	0.472	0.412	0.148	0.440	0.085	0.090	0.013	0.057	0.184	0.208
26	0.313	0.221	0.434	0.330	0.176	0.192	0.098	0.077	0.012	0.043	0.147	0.193
27	0.313	0.222	0.447	0.301	1.181	0.158	0.137	0.068	0.018	0.046	0.148	0.193
28	0.307	0.253	0.413	0.299	0.743	0.138	0.116	0.067	0.013	0.060	0.148	0.262
29	0.307	0.390	0.395	0.292	0.807	0.135	0.090	0.063	0.009	0.060	0.157	0.232
30	0.307		0.378	0.321	0.428	0.121	0.080	0.060	0.011	0.054	0.125	0.192
31	0.301		0.378		0.308		0.077	0.059		0.054		0.278
MEAN	0.6120	0.2905	0.7373	0.3637	0.3047	0.2990	0.1317	0.1616	0.0273	0.0428	0.2022	0.1947
INCHES	0.814	0.361	0.980	0.468	0.405	0.385	0.175	0.215	0.035	0.057	0.260	0.259
STA AV	0.918	1.215	1.331	0.897	0.882	0.653	0.452	0.356	0.285	0.360	0.487	0.714

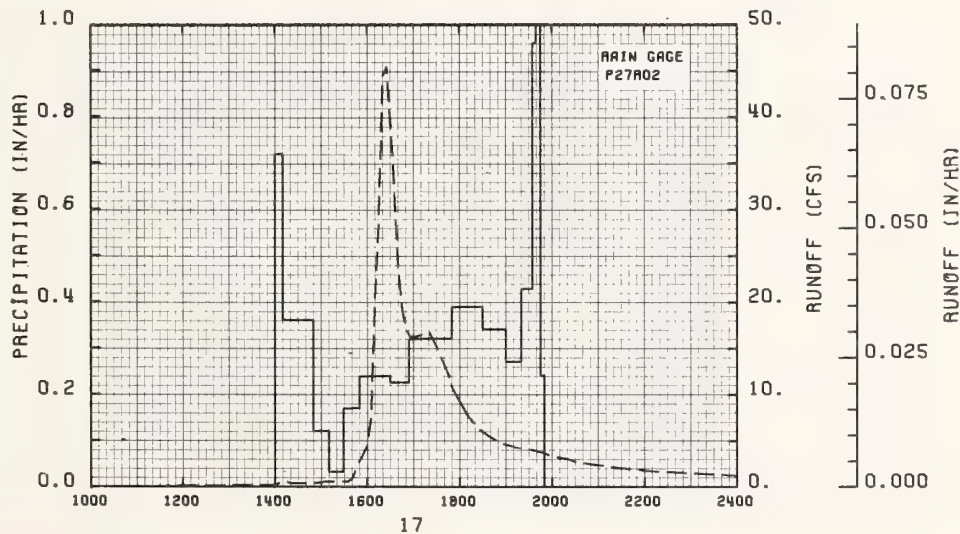
NOTES: To convert CFS to IN/DAY, multiply by 0.042886. STA AV based on record period April 1958 through 1968.

1968 SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA				ROCKY RUN BRANCH WATERSHED (13011)			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 17 - 18, 1968										
RG P27R02			RG P27R02							
6-17	0.0	0.003	6-17	1400	0.0	0.0	6-17	1130	0.15	0.0
				1410	0.7199	0.12		1400	0.21	0.0008
				1450	0.3600	0.36		1405	0.43	0.0008
				1510	0.1200	0.40		1410	0.61	0.0009
				1529	0.0316	0.41		1415	0.55	0.0010
WATERSHED CONDITIONS: Mixed cover, farm woods, mixture of hardwoods and conifers, 57%; permanent pasture, usually a good cover of native grass and clover mixture, 13%; alfalfa and other hay crops, 5%; corn, 3%; tobacco, 2%; small grain, 1%; roads, 1%; soy beans, 3%; idle, 15%.				1550	0.1714	0.47		1420	0.35	0.0011
				1630	0.2400	0.63		1445	0.39	0.0014
				1654	0.2250	0.72		1455	0.50	0.0015
				1750	0.3214	1.02		1505	0.58	0.0017
				1830	0.3900	1.28		1520	0.60	0.0020
				1900	0.3400	1.45		1535	0.61	0.0023
				1920	0.2700	1.54		1540	0.98	0.0024
				1934	0.4285	1.64		1545	1.84	0.0026
				1939	0.9604	1.72		1550	2.82	0.0029
				1945	0.9999	1.82		1555	3.73	0.0034
			1950	0.2401	1.84		1600	4.53	0.0040	
							1605	7.71	0.0049	
							1610	20.22	0.0070	
							1615	28.78	0.0107	
							1620	44.37	0.0161	
							1625	45.51	0.0228	
							1630	39.47	0.0291	
							1635	32.55	0.0345	
							1640	23.93	0.0387	
							1645	19.47	0.0419	
							1650	17.26	0.0446	
							1655	16.22	0.0471	
							1705	16.29	0.0519	
							1720	16.82	0.0593	
							1730	15.16	0.0641	
							1735	14.13	0.0663	
							1740	13.16	0.0683	
							1745	12.20	0.0702	
							1750	10.80	0.0719	
							1755	9.90	0.0734	

NOTES: To convert CFS to IN/HR, multiply by 0.0017869.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 17 - 18, 1968 (CONTINUED)										
							6-17	1805	8.51	0.0761
								1810	7.64	0.0773
								1820	6.74	0.0794
								1825	6.15	0.0804
								1835	5.58	0.0821
								1845	5.06	0.0837
								1855	4.61	0.0851
								1905	4.40	0.0864
								1915	4.17	0.0877
								1930	3.99	0.0895
								1940	3.81	0.0907
								1950	3.62	0.0918
								2000	3.26	0.0928
								2010	3.12	0.0937
								2020	2.96	0.0946
								2030	2.67	0.0954
								2040	2.53	0.0962
								2050	2.42	0.0969
								2100	2.30	0.0976
								2110	2.19	0.0983
								2120	2.07	0.0989
								2130	1.96	0.0995
								2145	1.86	0.1004
								2155	1.76	0.1009
								2210	1.67	0.1017
								2225	1.57	0.1024
								2245	1.48	0.1033
								2305	1.40	0.1042
								2330	1.31	0.1052
								2400	1.16	0.1063
							6-18	25	1.16	0.1072
								110	1.08	0.1087
								150	1.01	0.1099
								235	0.95	0.1112
								335	0.88	0.1128
								505	0.82	0.1151
								635	0.75	0.1172

NOTES: To convert CFS to IN/HR, multiply by 0.0017869.



EVENT OF JUNE 17 - 18, 1968
BLACKSBURG, VIRGINIA ROCKY RUN BRANCH WATERSHED (13011)

BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)

LOCATION: Culpeper County, Va., on Route No. 3 about 3.75 mi. (by road) Southeast of Culpeper, Va., Mountain Run, Rappahannock River.

AREA: 192.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	3.03	0.37	3.22	1.18	4.71	4.00	5.33	3.89	1.79	3.00	3.67	1.75	35.95					
	Q	1.232	0.104	1.215	0.009	0.232	0.253	0.326	0.062	0.008	0.007	0.266	0.233	3.947					
STA AV	P	2.72	3.05	3.49	2.70	3.23	3.09	3.25	3.50	3.54	2.53	2.58	2.50	36.16					
	Q	1.113	1.477	1.714	0.829	0.339	0.314	0.102	0.133	0.319	0.201	0.151	0.467	7.160					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		7- 2	0.068	3-16	0.059	3-16	0.114	3-16	0.285	1-14	0.467	1-14	0.588	1-14	0.702	3-12	1.097		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-24	0.480	5-19	0.290	2- 7	0.440	2- 7	0.890	2- 7	1.230	2- 7	1.450	2- 7	1.610	2-18	2.760		
		1958		1966		1965		1965		1965		1965		1965		1961			

NOTES: Watershed conditions: Mixed cover, farm woods, predominantly hardwood, 53%; permanent pasture with a fair cover of native grass mixture, 5%; corn, 15%; hay crop, 1%; roads, 2%; idle, 24%. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.12-7. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from May 1958 thru 1968. For long-time precipitation records, see U.S. Weather Bureau records at Culpeper, Virginia.

1968		DAILY PRECIPITATION (inches)					BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	
	2	0.0	0.16	0.0	0.0	0.0	0.06	2.00	0.77	0.0	0.0	0.0	0.06	
	3	0.08E	0.0	0.0	0.0	0.01	0.0	0.07E	0.0	0.0	0.32	0.24	0.0	
	4	0.07E	0.0	0.0	0.05	0.48	0.0	0.0	0.40	0.0	0.0	0.01	0.44	
	5	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
	6	0.11M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.22	0.0	0.0	
	7	0.02M	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.0	0.51	0.49E	0.0	
	8	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	
	9	0.02M	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.16M	0.0	
	10	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.31	0.82	0.0	0.60M	0.0	
	11	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.11	0.0	0.35S	0.0	
	12	0.0	0.0	1.62	0.0	0.31	1.48	0.0	0.0	0.0	0.0	1.10S	0.0	
	13	0.81M	0.0	0.14	0.0	0.0	0.0	1.33	0.02	0.0	0.0	0.0	0.0	
	14	1.67M	0.0	0.0	0.0	0.46	0.0	0.03E	0.0	0.0	0.0	0.0	0.34E	
	15	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.86	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
	17	0.0	0.0	0.33	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.15	0.0	
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.35	0.0	
	19	0.0	0.0	0.0	0.0	0.12	0.29	0.37E	0.95	0.0	1.46E	0.0	0.0	
	20	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.14	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67E	
	23	0.01E	0.0	0.22E	0.03	0.15E	0.07	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.04E	0.0	0.0	0.54	0.27	0.0	0.0	0.01E	0.0	0.25	0.17	0.0	
	25	0.01E	0.0	0.0	0.0	0.15	0.0	1.46	0.0	0.0	0.04	0.0	0.0	
	26	0.01E	0.0	0.0	0.0	0.03	0.46	0.07	0.0	0.16	0.0	0.0	0.0	
	27	0.0	0.0	0.0	0.22	1.92	0.18	0.01	0.0	0.0	0.0	0.01	0.0	
	28	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.10	0.03E	0.09E	
	29	0.0	0.21M	0.0	0.12	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.18	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	31	0.0		0.0		0.0		0.0	0.0		0.0		0.0	
TOTAL		3.03	0.37	3.22	1.18	4.71	4.00	5.33	3.89	1.79	3.00	3.67	1.75	
STA AV		2.72	3.05	3.49	2.70	3.23	3.09	3.25	3.50	3.54	2.53	2.58	2.50	

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period May 1958 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.302	0.107	0.002	0.014	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.007
2	0.209	0.190	0.024	0.003	0.0	0.037	0.984	0.099	0.0	0.0	0.0	0.023
3	0.219	0.138	0.007	0.004	0.0	0.035	0.382	0.003	0.0	0.0	0.0	0.019
4	0.360	0.081	0.009	0.009	0.010	0.022	0.039	0.023	0.0	0.0	0.0	0.178
5	0.061	0.063	0.007	0.011	0.0	0.016	0.012	0.002	0.0	0.0	0.0	0.061
6	0.044	0.052	0.005	0.003	0.0	0.019	0.006	0.0	0.0	0.0	0.0	0.037
7	0.048	0.045	0.001	0.003	0.0	0.012	0.002	0.178	0.0	0.0	0.0	0.027
8	0.042	0.035	0.001	0.003	0.0	0.009	0.001	0.058	0.0	0.0	0.0	0.017
9	0.042	0.028	0.002	0.001	0.0	0.013	0.0	0.021	0.0	0.0	0.0	0.010
10	0.042	0.017	0.005	0.001	0.0	0.010	0.0	0.019	0.064	0.0	0.071	0.004
11	0.042	0.011	0.002	0.001	0.0	0.014	0.0	0.009	0.001	0.0	0.008	0.006
12	0.042	0.013	1.627	0.0	0.0	0.444	0.0	0.002	0.0	0.0	1.108	0.004
13	0.043	0.010	1.411	0.0	0.0	0.272	0.658	0.001	0.0	0.0	0.187	0.012
14	4.297	0.009	0.409	0.0	0.0	0.061	0.015	0.001	0.0	0.0	0.093	0.187
15	1.281	0.006	0.226	0.0	0.0	0.039	0.004	0.0	0.0	0.0	0.061	0.043
16	0.441	0.006	0.599	0.0	0.0	0.026	0.001	0.0	0.0	0.0	0.037	0.037
17	0.214	0.005	3.685	0.0	0.0	0.548	0.0	0.0	0.0	0.0	0.031	0.019
18	0.164	0.003	0.578	0.0	0.0	0.119	0.0	0.0	0.0	0.0	0.233	0.014
19	0.151	0.003	0.300	0.0	0.0	0.080	0.011	0.081	0.0	0.055	0.090	0.018
20	0.173	0.004	0.196	0.0	0.0	0.064	0.0	0.006	0.0	0.0	0.052	0.022
21	0.260	0.001	0.172	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.036	0.014
22	0.212	0.001	0.116	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.024	0.350
23	0.292	0.001	0.175	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.017	0.301
24	0.181	0.001	0.082	0.012	0.0	0.018	0.0	0.0	0.0	0.0	0.020	0.120
25	0.121	0.001	0.055	0.0	0.0	0.012	0.477	0.0	0.0	0.0	0.023	0.058
26	0.091	0.001	0.034	0.0	0.0	0.020	0.025	0.0	0.0	0.0	0.012	0.040
27	0.088	0.001	0.026	0.003	0.469	0.027	0.006	0.0	0.0	0.0	0.013	0.045
28	0.079	0.001	0.018	0.0	0.925	0.007	0.003	0.0	0.0	0.0	0.021	0.101
29	0.091	0.005	0.013	0.0	0.200	0.0	0.001	0.0	0.0	0.0	0.008	0.046
30	0.154	0.007	0.007	0.001	0.172	0.0	0.0	0.0	0.0	0.0	0.004	0.027
31	0.156	0.005	0.005	0.097	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032
MEAN	0.3207	0.0289	0.3161	0.0023	0.0604	0.0681	0.0847	0.0162	0.0022	0.0018	0.0716	0.0606
INCHES	1.232	0.104	1.215	0.009	0.232	0.253	0.326	0.062	0.008	0.007	0.266	0.233
STA AV	1.113	1.477	1.714	0.829	0.339	0.314	0.102	0.133	0.319	0.201	0.151	0.467

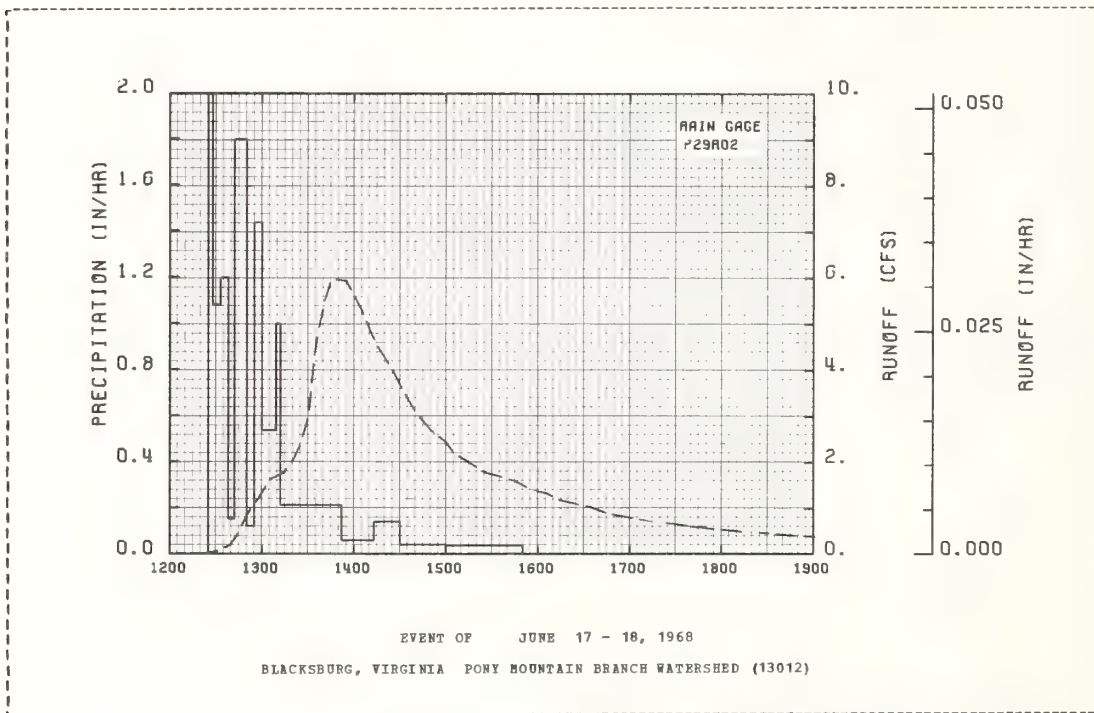
NOTES: To convert CFS to IN/DAY, multiply by 0.123967. STA AV based on record period May 1958 through 1968.

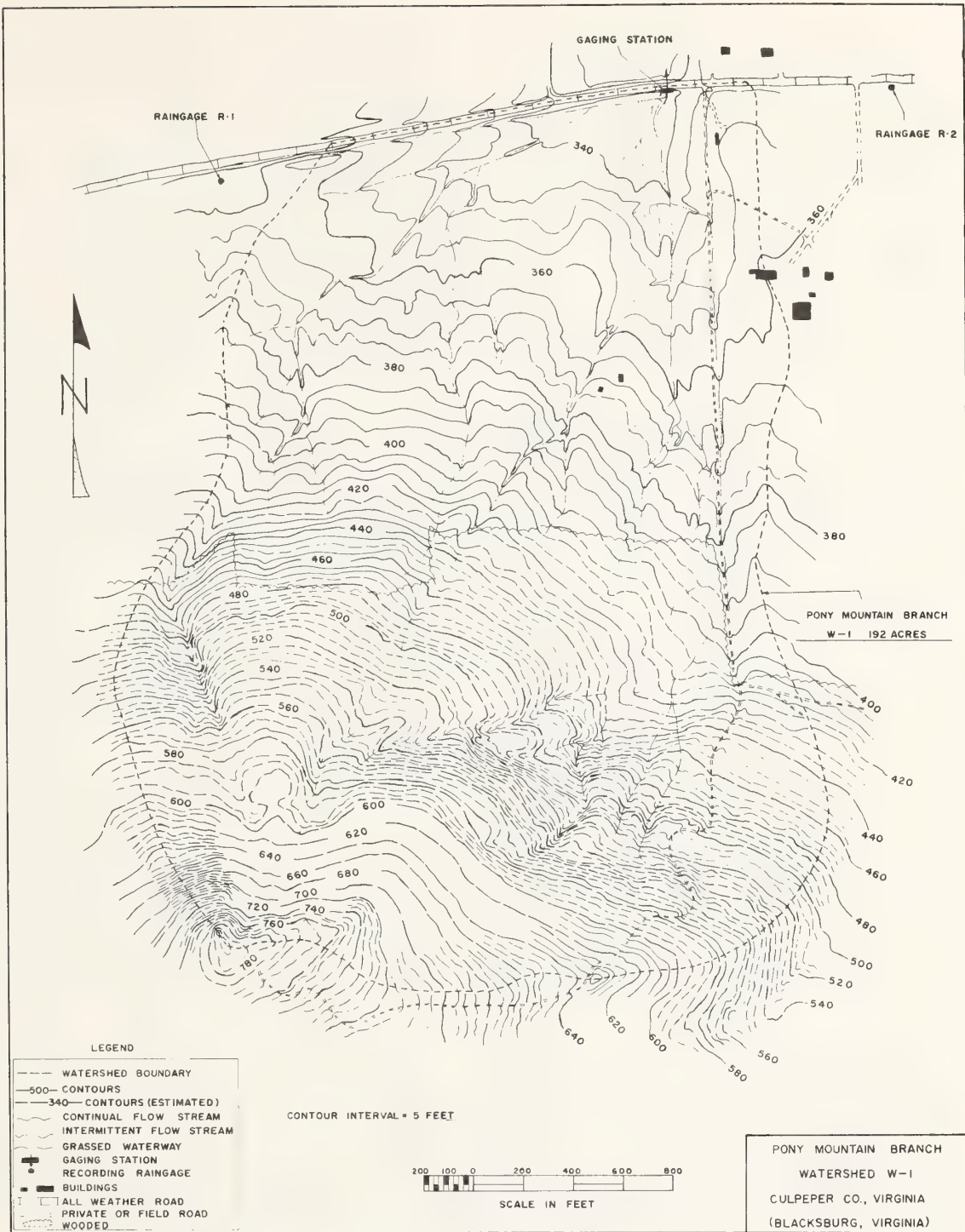
1968 SELECTED RUNOFF EVENT BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 17 - 18, 1968											
RG P29R02			RG P29R02								
6-17	0.0	0.002	6-17	1225	0.0	0.0	6-17	1225	0.03	0.0	
				1228	2.0000	0.10		1235	0.10	0.0001	
				1233	1.0804	0.19		1240	0.24	0.0002	
				1238	1.2005	0.29		1245	0.49	0.0004	
				1242	0.1499	0.30		1250	0.85	0.0007	
WATERSHED CONDITIONS:				1250	1.8005	0.54		1255	1.08	0.0011	
Mixed cover, farm woods,				1255	0.1199	0.55		1305	1.62	0.0023	
predominately hardwood, 53%;				1300	1.4406	0.67		1315	1.80	0.0038	
permanent pasture with a fair				1309	0.5333	0.75		1320	2.03	0.0046	
cover of native grass mix-				1312	1.0000	0.80		1325	2.39	0.0056	
ture, 5%; corn, 15%; hay											
crop, 1%; roads, 2%; idle,				1352	0.2100	0.94		1330	2.97	0.0068	
24%.				1413	0.0571	0.96		1335	4.53	0.0084	
				1430	0.1412	1.00		1340	5.40	0.0105	
				1500	0.0400	1.02		1345	5.96	0.0130	
				1550	0.0360	1.05		1355	5.91	0.0181	
								1405	5.27	0.0229	
								1410	4.88	0.0251	
								1415	4.51	0.0271	
								1425	3.99	0.0308	
								1430	3.66	0.0325	
								1435	3.35	0.0340	
								1440	3.07	0.0354	
								1450	2.67	0.0379	
								1500	2.41	0.0401	
								1505	2.18	0.0411	
								1515	1.97	0.0429	
								1525	1.76	0.0445	
								1535	1.67	0.0460	
								1545	1.57	0.0474	
								1555	1.39	0.0487	
								1605	1.31	0.0499	
								1615	1.15	0.0510	
								1625	1.08	0.0520	
								1635	1.00	0.0529	
								1645	0.87	0.0537	

NOTES: To convert CFS to IN/HR, multiply by 0.0051653.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA PONY MOUNTAIN BRANCH WATERSHED (13012)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 17 - 18, 1968 (CONTINUED)										
							6-17	1655	0.81	0.0544
								1705	0.75	0.0551
								1715	0.69	0.0557
								1730	0.64	0.0566
								1740	0.59	0.0571
								1755	0.54	0.0578
								1810	0.49	0.0585
								1825	0.45	0.0591
								1840	0.41	0.0597
								1900	0.37	0.0604
								1925	0.34	0.0612
								1955	0.30	0.0620
								2025	0.27	0.0627
								2115	0.24	0.0638
								2205	0.22	0.0648
								2325	0.22	0.0663
								2400	0.19	0.0669
							6-18	205	0.19	0.0689

NOTES: To convert CFS to IN/HR, multiply by 0.0051653.





BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)

LOCATION: Page County Va., about 2.5 mi. E. of Stanley, Va., on secondary Route No. 689, Hawksbill Creek, South Fork Shenandoah River.

AREA: 2023.00 acres 3.16 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	3.80	0.63	3.81	1.51	4.35	3.37	3.68	2.58	2.29	2.73	3.33	1.12	33.20															
	Q	1.683	1.653	1.659	0.672	0.587	0.402	0.168	0.115	0.083	0.088	0.509	0.278	7.898															
STA AV	P	2.62	3.14	3.56	2.65	3.23	3.09	2.74	2.87	3.23	2.42	2.93	2.32	34.79															
	Q	1.023	1.188	1.775	1.115	0.723	0.471	0.188	0.111	0.107	0.261	0.438	0.523	7.922															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge Date		1 Hour Date		2 Hours Date		Maximum Volume for Selected Time Interval				2 Hours Date		2 Days Date		8 Days Date													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		1-14	0.022	1-14	0.021	1-14	0.042	1-14	0.117	1-14	0.188	1-14	0.259	1-30	0.370	1-29	1.043												
MAXIMUMS FOR PERIOD OF RECORD																													
		9-30 1959	0.240	9-30 1959	0.170	9-30 1959	0.240	9-30 1959	0.340	9-30 1959	0.400	6-20 1962	0.520	6-19 1962	0.900	3-29 1960	1.580												

NOTES: Watershed conditions: Mixed cover, farm woods, predominantly hardwood mixed with conifers, 58%; permanent pasture, a fair cover of native grasses, 28%; corn, 2%; hay crops, 7%; roads, 1%; idle, 3%; small grain, 1%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.13-5. Precipitation: Thiessen weighted from R-1, R-2, and R-3. STA AV determined from continuous records from September 1959 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Luray (5 miles E), Virginia.

1968 DAILY PRECIPITATION (inches)														BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.09M	0.11	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.11															
2	0.04S	0.02E	0.0	0.0	0.0	0.10	0.74	0.25	0.0	0.0	0.0	0.0															
3	0.08S	0.0	0.0	0.0	0.0	0.04	0.00	0.0	0.0	0.21E	0.08E	0.01															
4	0.0	0.0	0.0	0.27	0.08	0.0	0.0	0.16	0.0	0.0	0.0	0.09															
5	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.05E	0.0	0.0	0.0															
6	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.23E	0.24E	0.0	0.0															
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.21E	0.61E	0.0															
8	0.0	0.0	0.0	0.02	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.01N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10M	0.0															
10	0.0	0.0	0.33E	0.0	0.0	0.0	0.0	0.45	1.67	0.0	0.63M	0.0															
11	0.0	0.0	0.0	0.08	0.02E	0.03E	0.0	0.0	0.34	0.0	0.24M	0.0															
12	0.0	0.0	1.58	0.0	0.29	0.0	0.0	0.0	0.0	0.0	1.00M	0.0															
13	2.10N	0.0	0.04	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.01M	0.0															
14	1.17N	0.0	0.0	0.0	0.45	0.0	0.09E	0.0	0.0	0.0	0.0	0.28															
15	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.74	0.0	0.0	0.0	0.46	0.03	0.0	0.0	0.0	0.0															
17	0.0	0.0	0.36	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.15	0.0															
18	0.0	0.0	0.0	0.0	0.08	0.0	0.00	0.46	0.0	0.35E	0.30	0.01E															
19	0.0	0.0	0.0	0.0	0.08	0.53	0.62	0.0	0.0	1.67E	0.0	0.05E															
20	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.43															
23	0.0	0.0	0.52	0.07	0.11	0.08	0.0	0.0	0.0	0.0	0.0	0.01															
24	0.10E	0.0	0.0	0.11	0.33	0.12	0.04E	0.0	0.0	0.05E	0.20	0.0															
25	0.0	0.0	0.0	0.0	0.02	0.0	1.72	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.03	0.13	0.0	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.0	0.41	2.04	1.09	0.01	0.0	0.0	0.0	0.0	0.0															
28	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.01	0.14															
29	0.0	0.61M	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.30	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL	3.80	0.63	3.81	1.51	4.35	3.37	3.68	2.58	2.29	2.73	3.33	1.12															
STA AV	2.62	3.14	3.56	2.65	3.23	3.09	2.74	2.87	3.23	2.42	2.93	2.32															

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period September 1959 through 1968.

1968	MEAN DAILY DISCHARGE (cfs)					BLACKSBURG, VIRGINIA			CHUB RUN WATERSHED (13013)			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.482	13.988	1.520	2.947	1.374	2.590	0.537	0.357	0.159	0.138	0.211	0.797
2	1.666	15.743	2.084	2.589	1.320	2.345	0.647	0.368	0.148	0.134	0.222	0.851
3	1.408	11.476	2.076	2.508	1.264	2.044	0.940	0.422	0.166	0.144	0.227	0.766
4	1.893	7.945	2.324	3.239	1.207	1.730	0.628	0.371	0.167	0.134	0.254	0.801
5	2.618	6.137	1.865	2.635	1.088	1.594	0.512	0.341	0.162	0.140	0.238	0.695
6	1.776	5.241	1.835	2.280	0.960	1.371	0.490	0.317	0.237	0.163	0.242	0.642
7	1.517	4.658	1.729	2.142	0.973	1.171	0.439	0.967	0.155	0.305	0.401	0.634
8	1.772	4.188	1.682	2.157	0.909	1.296	0.421	0.538	0.159	0.183	0.470	0.688
9	2.104	3.691	1.765	2.065	0.868	1.249	0.413	0.325	0.141	0.184	0.347	1.038
10	1.468	3.954	2.302	2.025	0.855	1.223	0.394	0.444	1.166	0.172	0.524	0.809
11	1.429	7.882	2.217	2.042	0.899	1.294	0.351	0.456	0.938	0.168	0.575	0.740
12	1.818	6.196	11.490	1.914	1.163	0.926	0.302	0.296	0.336	0.168	1.491	0.684
13	1.028	3.320	10.386	1.879	1.068	0.794	0.301	0.299	0.254	0.162	1.094	0.640
14	21.299	5.925	6.014	1.830	1.216	0.723	0.277	0.451	0.242	0.158	0.995	0.899
15	9.346	2.511	4.842	1.947	1.187	0.701	0.308	0.351	0.225	0.142	3.065	0.717
16	5.653	2.396	5.717	1.783	1.042	0.650	0.382	0.288	0.208	0.139	5.513	0.864
17	4.059	2.288	17.417	1.640	0.972	1.388	0.327	0.260	0.191	0.129	4.443	0.753
18	3.158	3.962	9.027	1.600	0.934	1.006	0.280	0.354	0.197	0.157	4.844	0.652
19	2.942	3.540	6.614	1.570	0.910	1.047	0.549	0.346	0.195	1.495	3.479	0.605
20	2.892	1.895	5.522	1.629	0.877	1.118	0.385	0.255	0.176	0.459	2.468	0.611
21	3.333	3.216	4.744	1.577	0.838	0.786	0.280	0.217	0.161	0.322	1.954	0.560
22	3.884	4.213	4.265	1.474	0.791	0.732	0.249	0.200	0.160	0.281	1.599	0.826
23	8.308	3.802	5.626	1.371	0.846	0.677	0.241	0.193	0.156	0.255	1.368	1.001
24	6.959	2.716	4.337	1.476	1.024	0.724	0.218	0.190	0.149	0.255	1.402	0.892
25	4.547	2.500	3.926	1.334	1.137	0.678	1.381	0.190	0.139	0.257	1.233	0.951
26	5.150	2.397	3.630	1.352	0.826	0.563	0.991	0.180	0.141	0.243	1.022	0.929
27	3.220	2.006	3.483	1.647	3.685	1.108	0.511	0.156	0.135	0.219	0.979	0.644
28	3.369	1.464	3.297	1.472	7.548	1.222	0.464	0.170	0.134	0.217	0.949	0.837
29	5.307	1.310	3.210	1.492	5.295	0.747	0.387	0.161	0.141	0.189	0.867	0.718
30	11.965		3.089	1.485	3.830	0.631	0.346	0.161	0.153	0.203	0.761	0.722
31	15.709		2.947		3.015		0.354	0.151		0.189		0.664
MEAN	4.6150	4.8456	4.5475	1.9035	1.6104	1.1376	0.4614	0.3154	0.2364	0.2421	1.4413	0.7622
INCHES	1.683	1.653	1.659	0.672	0.587	0.402	0.168	0.115	0.083	0.088	0.509	0.278
STA AV	1.023	1.188	1.775	1.115	0.723	0.471	0.188	0.111	0.107	0.261	0.438	0.523

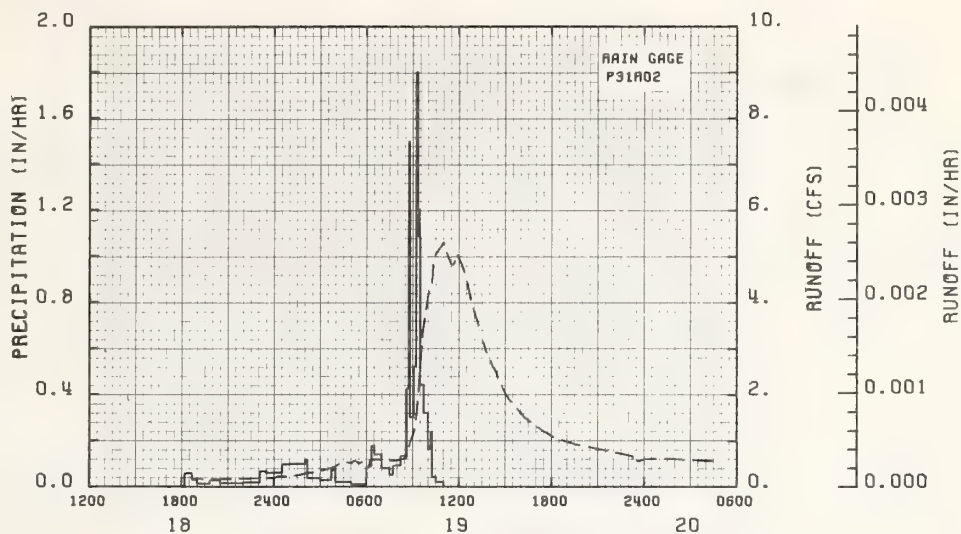
NOTES: To convert CFS to IN/DAY, multiply by 0.011766. STA AV based on record period September 1959 through 1968.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF OCTOBER 18 - 20, 1968											
RG P31R02			RG P31R02								
10-18	0.10	0.001	10-18	1810	0.0	0.0	10-18	1850	0.16	0.0	
				1840	0.0600	0.03		1900	0.19	0.0	
				1900	0.0300	0.04		1925	0.15	0.0	
				1950	0.0120	0.05		2400	0.20	0.0004	
				2030	0.0300	0.07	10-19	10	0.23	0.0004	
WATERSHED CONDITIONS:											
Mixed cover, farm woods,			2200		0.0133	0.09	110		0.23	0.0005	
predominantly hardwood mixed			2230		0.0200	0.10	140		0.27	0.0006	
with conifers, 58%; permanent			2304		0.0176	0.11	205		0.30	0.0007	
a fair cover of native grasses.			2330		0.0692	0.14	300		0.34	0.0008	
28%: corn, 2%: hay crops, 7%:			2400		0.0600	0.17	330		0.40	0.0009	
1%: idle, 3%: small grain, 1%.											
			10-19	30	0.0600	0.20	355		0.45	0.0010	
				100	0.1000	0.25	415		0.51	0.0011	
				130	0.1000	0.30	425		0.56	0.0011	
				148	0.1000	0.33	500		0.50	0.0013	
				200	0.1000	0.35	510		0.56	0.0013	
				210	0.1200	0.37	520		0.55	0.0013	
				300	0.0360	0.40	530		0.50	0.0013	
				344	0.0273	0.42	540		0.55	0.0013	
				352	0.0750	0.43	550		0.48	0.0013	
				400	0.0750	0.44	610		0.43	0.0014	
				500	0.0200	0.46	615		0.60	0.0014	
				600	0.0100	0.47	740		0.56	0.0018	
				620	0.0900	0.50	835		0.63	0.0021	
				630	0.1800	0.53	845		0.81	0.0022	
				700	0.1400	0.60	850		0.96	0.0022	
				730	0.0800	0.64	900		1.12	0.0023	
				742	0.0500	0.65	910		1.34	0.0024	
				814	0.0938	0.70	920		1.85	0.0025	
				836	0.1364	0.75	925		2.26	0.0026	
				843	0.4285	0.80	930		2.72	0.0027	
				847	1.5000	0.90	935		3.02	0.0028	
				850	1.2000	0.96	940		3.39	0.0029	
				904	0.2999	1.03	950		3.75	0.0032	
				912	0.5251	1.10	1000		4.16	0.0035	
				920	1.8005	1.34	1015		4.41	0.0040	

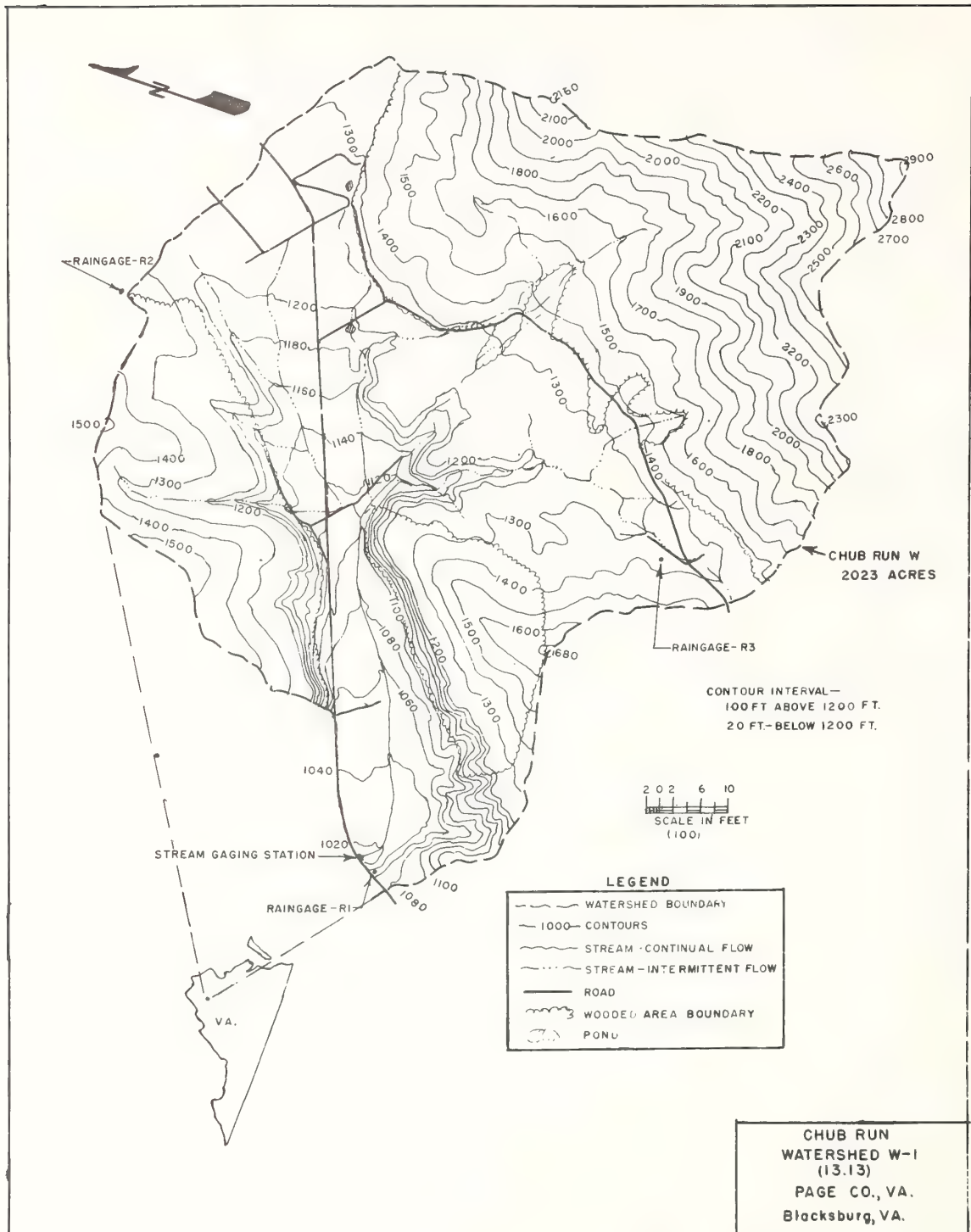
NOTES: To convert CFS to IN/HR, multiply by 0.0004902.

1968	SELECTED RUNOFF EVENT			BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 18 - 20, 1968 (CONTINUED)										
10-19	923	1.2000	1.40	10-19	1020	4.87	0.0042			
	928	1.0791	1.49	1030	5.06	0.0046				
	943	0.4400	1.60	1100	5.31	0.0059				
	1000	0.3177	1.69	1115	5.03	0.0065				
	1011	0.1637	1.72	1130	4.81	0.0071				
	1016	0.2398	1.74	1140	4.83	0.0075				
	1030	0.0429	1.75	1150	5.05	0.0079				
	1100	0.0200	1.76	1210	4.81	0.0087				
				1225	4.57	0.0093				
				1235	4.34	0.0097				
			1245	4.11	0.0100					
			1255	3.89	0.0103					
			1305	3.69	0.0106					
			1315	3.50	0.0109					
			1325	3.31	0.0112					
			1335	3.12	0.0115					
			1345	2.93	0.0117					
			1400	2.77	0.0120					
			1410	2.61	0.0122					
			1425	2.46	0.0125					
			1435	2.30	0.0127					
			1450	2.14	0.0130					
			1500	2.01	0.0132					
			1515	1.88	0.0134					
			1535	1.75	0.0137					
			1555	1.62	0.0140					
			1615	1.49	0.0143					
			1640	1.39	0.0146					
			1705	1.29	0.0149					
			1730	1.19	0.0152					
			1800	1.09	0.0155					
			1845	0.99	0.0159					
			1930	0.91	0.0162					
			2040	0.83	0.0167					
			2150	0.76	0.0172					
			2315	0.65	0.0177					
			2320	0.52	0.0177					
			2400	0.61	0.0179					
			115	0.61	0.0183					
			405	0.55	0.0191					
			755	0.50	0.0201					

NOTES: To convert CFS to IN/HR, multiply by 0.0004902.



EVENT OF OCTOBER 18 - 20, 1968
BLACKSBURG, VIRGINIA CHUB RUN WATERSHED (13013)



BLACKSBURG VIRGINIA FOSTERS CREEK WATERSHED (13014)

LOCATION: Louisa County, Va., on Route No. 250, 2 mi. east of Zion Crossroads, Va., South Anna River.

AREA: 389.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														BLACKSBURG VIRGINIA FOSTERS CREEK WATERSHED (13014)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P 2.73	0.66	4.28	2.22	4.28	2.81	2.64	3.83	1.31	2.97	3.38	1.74	32.86														
	O 1.724	0.397	1.953	0.408	0.527	0.203	0.138	0.125	0.038	0.070	0.329	0.249	6.160														
STA AV	P 2.63	3.29	3.76	2.35	3.13	2.73	2.61	3.38	3.09	3.20	2.61	3.06	35.86														
	O 1.143	1.660	1.959	0.856	0.643	0.297	0.192	0.191	0.191	0.950	0.339	0.765	9.186														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
	Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	Maximum Volume for Selected Time Interval 6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.																			
1968	3-12 0.435	3-12 0.315	3-12 0.449	3-12 0.735	3-12 0.873	1-13 1.131	1-13 1.231	3-12 1.570																			
MAXIMUMS FOR PERIOD OF RECORD																											
	10-20 1.710	10-20 0.760	10-20 1.020	10-20 2.060	10-20 3.020	10-20 4.960	10-20 5.890	10-20 5.960																			
	1961	1961	1961	1961	1961	1961	1961	1961																			

NOTES: Watershed conditions: Mixed cover, farm woods, predominantly hardwoods, 44%; permanent pasture, usually a good cover of native grass and clover mixture, 26%; corn, 1%; hay crops, 25%; idle, 1%; roads, 2%; small grain, 1%. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, USDA Misc. Pub. 1262, 1967, p. 13, 14-5. Precipitation: Thiessen weighted from R-1 and R-2. Station averages determined from continuous records from September 1960 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Louisa, Virginia.

1968	DAILY PRECIPITATION (inches)					BLACKSBURG VIRGINIA								FOSTERS CREEK WATERSHED (13014)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.02M	0.24	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.31															
2	0.0	0.32	0.0	0.0	0.0	0.0	1.43	0.89	0.0	0.0	0.0	0.03															
3	0.09	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.11															
4	0.04	0.0	0.0	0.36	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.25															
5	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
6	0.11M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92	0.20	0.0	0.0															
7	0.03M	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.62	0.49E	0.0															
8	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0															
10	0.0	0.0	0.32	0.0	0.0	0.01	0.0	0.25	0.38	0.0	0.46M	0.0															
11	0.0	0.0	0.02	0.0	0.14	0.35	0.02E	0.0	0.0	0.0	0.34S	0.0															
12	0.0	0.0	2.50	0.0	0.22	0.35	0.0	0.0	0.0	0.01	0.98S	0.0															
13	1.78M	0.0	0.04E	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0															
14	0.40M	0.0	0.0	0.0	0.53	0.0	0.11	0.04	0.0	0.0	0.0	0.32															
15	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0															
17	0.0	0.0	0.30	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.08	0.0															
18	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.77	0.0	0.35	0.40	0.0															
19	0.0	0.0	0.0	0.0	0.17	0.0	0.03	0.67	0.0	1.35	0.0	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.02	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57															
23	0.14S	0.0	0.26	0.10	0.05	0.14	0.0	0.0	0.0	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.25	0.20E	0.0															
25	0.0	0.0	0.0	0.0	0.14	0.0	0.41	0.0	0.0	0.03	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.21	1.47	0.0	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.0	0.38	2.30	0.0	0.06	0.0	0.0	0.0	0.05E	0.0															
28	0.0	0.0	0.0	0.0	0.08	0.0	0.22	0.0	0.0	0.16	0.04E	0.14															
29	0.0	0.34M	0.0	0.34	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.11E	0.06	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL	2.73	0.66	4.28	2.22	4.28	2.81	2.64	3.83	1.31	2.97	3.38	1.74															
STA AV	2.63	3.29	3.76	2.35	3.13	2.73	2.61	3.38	3.09	3.20	2.61	3.06															

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1 and R-2. STA AV based on record period September 1960 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.321	0.246	0.253	0.315	0.203	0.129	0.034	0.039	0.009	0.004	0.035	0.075
2	0.242	0.394	0.297	0.234	0.167	0.132	0.359	0.390	0.010	0.004	0.037	0.261
3	0.265	0.416	0.257	0.215	0.159	0.122	0.583	0.126	0.006	0.005	0.042	0.206
4	0.487	0.290	0.223	0.260	0.148	0.106	0.146	0.087	0.009	0.007	0.038	0.323
5	0.289	0.254	0.200	0.419	0.149	0.091	0.081	0.050	0.009	0.009	0.045	0.149
6	0.247	0.246	0.208	0.245	0.138	0.085	0.062	0.069	0.097	0.009	0.039	0.103
7	0.248	0.246	0.192	0.215	0.054	0.055	0.053	0.147	0.048	0.066	0.113	0.099
8	0.174	0.228	0.188	0.215	0.124	0.106	0.051	0.104	0.017	0.017	0.064	0.113
9	0.159	0.222	0.199	0.210	0.123	0.115	0.049	0.049	0.013	0.017	0.046	0.125
10	0.170	0.207	0.292	0.193	0.098	0.109	0.048	0.036	0.036	0.023	0.327	0.120
11	0.159	0.201	0.319	0.189	0.125	0.153	0.052	0.069	0.114	0.021	0.118	0.092
12	0.177	0.197	13.079	0.181	0.198	0.147	0.051	0.027	0.025	0.022	1.544	0.082
13	1.282	0.193	5.793	0.178	0.129	0.110	0.054	0.020	0.015	0.021	0.460	0.092
14	17.746	0.198	0.537	0.178	0.209	0.102	0.065	0.023	0.012	0.021	0.224	0.161
15	1.411	0.208	0.390	0.198	0.226	0.071	0.046	0.027	0.014	0.022	0.135	0.122
16	0.479	0.197	0.454	0.165	0.167	0.061	0.036	0.023	0.016	0.025	0.110	0.088
17	0.377	0.199	4.721	0.166	0.134	0.108	0.028	0.018	0.022	0.023	0.103	0.081
18	0.322	0.183	0.629	0.170	0.142	0.134	0.025	0.154	0.026	0.030	0.308	0.083
19	0.292	0.186	0.437	0.159	0.070	0.075	0.027	0.271	0.013	0.343	0.195	0.094
20	0.277	0.202	0.356	0.172	0.127	0.062	0.025	0.182	0.006	0.090	0.116	0.091
21	0.277	0.189	0.303	0.184	0.103	0.042	0.020	0.018	0.006	0.029	0.094	0.089
22	0.277	0.180	0.292	0.166	0.091	0.050	0.021	0.020	0.007	0.026	0.098	0.228
23	0.347	0.193	0.379	0.158	0.108	0.051	0.021	0.017	0.007	0.026	0.110	0.314
24	0.401	0.193	0.287	0.350	0.138	0.095	0.023	0.015	0.004	0.027	0.115	0.141
25	0.265	0.191	0.246	0.262	0.160	0.047	0.034	0.012	0.005	0.058	0.179	0.104
26	0.237	0.175	0.242	0.187	0.110	0.437	0.050	0.008	0.008	0.037	0.148	0.094
27	0.234	0.198	0.242	0.251	3.237	0.322	0.045	0.007	0.014	0.025	0.148	0.101
28	0.251	0.197	0.227	0.248	1.079	0.067	0.070	0.009	0.018	0.037	0.151	0.131
29	0.246	0.264	0.235	0.269	0.331	0.052	0.051	0.007	0.024	0.044	0.155	0.110
30	0.251		0.227	0.310	0.209	0.073	0.023	0.008	0.010	0.034	0.083	0.089
31	0.266		0.219		0.157		0.020	0.008		0.028		0.104
MEAN	0.9089	0.2238	1.0298	0.2221	0.2778	0.1103	0.0727	0.0658	0.0207	0.0370	0.1793	0.1311
INCHES	1.724	0.397	1.953	0.408	0.527	0.203	0.138	0.125	0.038	0.070	0.329	0.249
STA AV	1.143	1.660	1.959	0.856	0.643	0.297	0.192	0.191	0.191	0.950	0.339	0.765

NOTES: To convert CFS to IN/DAY, multiply by 0.061186. STA AV based on record period September 1960 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 12 - 13, 1968												
3-12	RG P34R02 0.0	0.001	3-12	RG P34R02 5	0.0	0.0	3-12	110	0.25	0.0		
				35	0.0600	0.03		300	0.28	0.0012		
				105	0.0200	0.04		415	0.31	0.0021		
				128	0.0261	0.05		520	0.34	0.0030		
				152	0.1000	0.09		555	0.39	0.0035		
WATERSHED CONDITIONS:				249	0.0105	0.10		615	0.43	0.0038		
Mixed cover, farm woods,				335	0.0261	0.12		640	0.47	0.0043		
predominantly hardwoods, 44%;				405	0.0200	0.13		655	0.51	0.0046		
permanent pasture, usually a				439	0.0176	0.14		710	0.52	0.0049		
good cover of native grass				505	0.0231	0.15		720	0.52	0.0051		
and clover mixture, 26%;												
corn, 1%; hay crops, 25%;				535	0.0800	0.19		730	0.52	0.0053		
idle, 1%; roads, 2%; small				549	0.0857	0.21		740	0.54	0.0055		
grain, 1%.				559	0.1801	0.24		750	0.68	0.0058		
				635	0.0833	0.29		800	1.05	0.0062		
				701	0.0923	0.33		810	1.32	0.0067		
				715	0.1286	0.36		820	1.50	0.0073		
				735	0.0600	0.38		825	1.68	0.0076		
				743	0.2249	0.41		835	1.88	0.0084		
				750	0.2573	0.44		840	2.11	0.0088		
				805	0.3600	0.53		845	2.37	0.0093		
				821	0.0750	0.55		850	2.73	0.0098		
				851	0.0	0.55		855	2.99	0.0104		
				857	0.8000	0.63		900	3.25	0.0111		
				945	0.0125	0.64		910	3.51	0.0125		
				1005	0.0300	0.65		945	3.64	0.0178		
				1035	0.1200	0.71		955	3.43	0.0193		
				1050	0.2000	0.76		1005	3.25	0.0207		
				1110	0.1800	0.82		1015	3.11	0.0221		
				1135	0.0960	0.86		1030	2.98	0.0240		
				1158	0.0261	0.87		1110	2.88	0.0290		
				1215	0.1765	0.92		1120	3.20	0.0303		
				1225	0.0600	0.93		1130	3.36	0.0317		
				1250	0.0240	0.94		1140	3.94	0.0333		
				1310	0.1200	0.98		1150	4.56	0.0351		
				1335	0.0960	1.02		1155	4.99	0.0361		

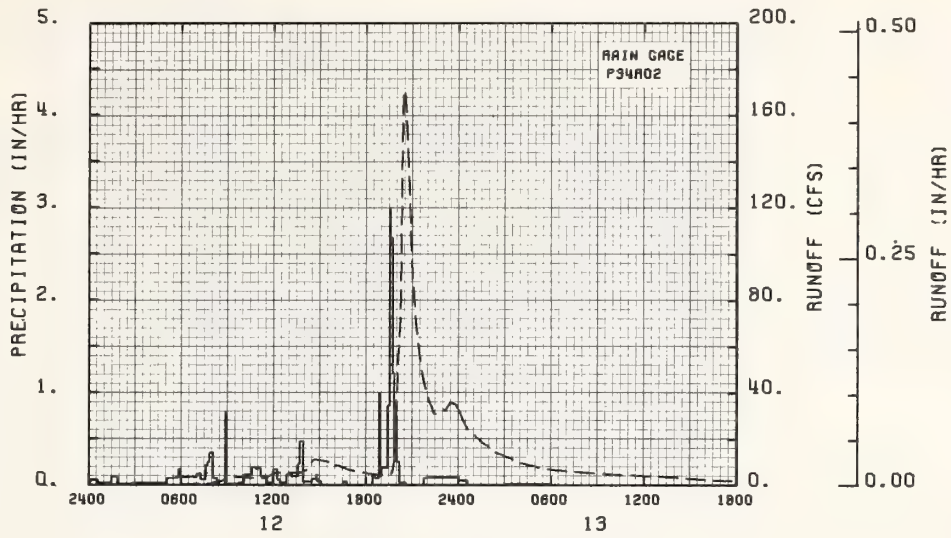
NOTES: To convert CFS to IN/HR, multiply by 0.0025494.

1968 SELECTED RUNOFF EVENT			BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 12 - 13, 1968 (CONTINUED)										
3-12			1340		0.2398	1.04	3-12	1205	5.37	0.0383
			1355		0.4800	1.16		1305	5.34	0.0520
			1429		0.0353	1.18		1350	5.67	0.0625
			1445		0.0750	1.20		1400	6.31	0.0650
			1450		0.1200	1.21		1410	6.92	0.0678
			1505		0.0400	1.22		1420	8.32	0.0710
			1632		0.0	1.22		1425	9.24	0.0729
			1645		0.0461	1.23		1430	10.17	0.0750
			1825		0.0	1.23		1440	11.47	0.0796
			1835		0.1201	1.25		1450	10.90	0.0844
			1851		0.0750	1.27		1510	10.44	0.0935
			1854		1.0002	1.32		1530	9.97	0.1022
			1900		0.1000	1.33		1545	9.48	0.1084
			1922		0.1909	1.40		1555	9.00	0.1123
			1931		0.8667	1.53		1605	8.56	0.1160
			1933		3.0007	1.63		1615	8.11	0.1195
			1942		2.6668	2.03		1625	7.67	0.1228
			1950		1.2003	2.19		1635	7.22	0.1260
			1954		0.2999	2.21		1645	6.78	0.1290
			1958		0.7495	2.26		1655	6.48	0.1318
			2010		0.2500	2.31		1705	6.18	0.1345
			2035		0.0240	2.32		1715	5.89	0.1371
			2145		0.0	2.32		1725	5.60	0.1395
			2400		0.0844	2.51		1740	5.31	0.1430
	3-13		35		0.0514	2.54		1755	5.08	0.1463
			300		0.0	2.54		1810	4.85	0.1495
			600		0.0133	2.58		1825	4.63	0.1525
								1845	4.41	0.1563
								1925	4.23	0.1636
								1935	4.77	0.1655
								1940	5.38	0.1666
								1945	7.02	0.1679
								1950	10.71	0.1698
								1955	21.03	0.1732
								2000	40.51	0.1798
								2005	55.77	0.1900
								2010	63.97	0.2027
								2015	81.45	0.2182
								2020	147.27	0.2425
								2025	169.89	0.2762
								2030	170.65	0.3124
								2035	162.80	0.3478
								2040	150.32	0.3810
								2045	135.79	0.4115
								2050	120.84	0.4387
								2055	104.71	0.4626
								2100	90.39	0.4834
								2105	81.42	0.5016
								2110	74.41	0.5181
								2115	68.48	0.5333
								2120	62.40	0.5472
								2125	58.40	0.5600
								2130	53.13	0.5719
								2135	49.71	0.5828
								2140	47.34	0.5931
								2145	44.33	0.6029
								2150	41.84	0.6120
								2155	40.12	0.6207
								2200	38.02	0.6290
								2205	36.68	0.6369
								2210	34.70	0.6445
								2215	33.85	0.6518
								2220	32.11	0.6588
								2225	30.60	0.6655
								2245	31.73	0.6920
								2255	32.55	0.7056
								2310	31.83	0.7261
								2315	33.79	0.7331
								2325	35.52	0.7478
								2350	34.64	0.7851
3-13								2400	32.27	0.7993
								5	31.34	0.8061
								10	29.54	0.8126
								20	27.23	0.8247
								30	24.99	0.8358

NOTES: To convert CFS to IN/HR, multiply by 0.0025494.

1968			BLACKSBURG VIRGINIA POSTERS CREEK WATERSHED (13014)								
SELECTED RUNOFF EVENT											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 12 - 13, 1968 (CONTINUED)											
							3-13	40	23.61	0.8461	
								50	22.24	0.8558	
								100	21.60	0.8651	
								110	20.31	0.8740	
								120	19.67	0.8825	
								130	18.42	0.8906	
								140	17.33	0.8982	
								155	16.76	0.9091	
								205	15.67	0.9160	
								215	15.09	0.9225	
								220	14.08	0.9256	
								230	13.67	0.9315	
								240	13.20	0.9372	
								250	12.74	0.9427	
								300	12.28	0.9480	
								310	11.83	0.9531	
								325	11.34	0.9605	
								335	10.40	0.9651	
								350	9.95	0.9716	
								400	9.48	0.9757	
								415	9.01	0.9816	
								425	8.57	0.9853	
								450	8.13	0.9942	
								505	7.68	0.9992	
								520	7.24	1.0040	
								550	6.80	1.0130	
								605	6.50	1.0172	
								625	6.21	1.0226	
								650	5.91	1.0290	
								725	5.62	1.0376	
								755	5.32	1.0446	
								830	5.09	1.0523	
								900	4.87	1.0586	
								940	4.64	1.0667	
								1015	4.41	1.0734	
								1055	4.18	1.0807	
								1135	4.00	1.0877	
								1225	3.82	1.0960	
								1305	3.64	1.1023	
								1325	3.45	1.1053	
								1340	3.27	1.1074	
								1400	3.13	1.1101	
								1420	2.98	1.1127	
								1435	2.83	1.1145	
								1450	2.68	1.1163	
								1510	2.54	1.1185	
								1530	2.42	1.1206	
								1545	2.30	1.1221	
								1605	2.19	1.1240	
								1625	2.08	1.1258	
								1645	1.96	1.1275	
								1710	1.87	1.1295	
								1740	1.77	1.1318	

NOTES: To convert CFS to IN/HR, multiply by 0.0025494.



EVENT OF MARCH 12 - 13, 1968
BLACKSBURG VIRGINIA FOSTERS CREEK WATERSHED (13014)

BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)

LOCATION: Bedford County, Va., on Route No. 460, about 6 mi. west of Forest, Va., near Goode, Va., Elk Creek, Big Otter River.

AREA: 1058.00 acres 1.65 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							BLACKSBURG VIRGINIA				CHESTNUT BRANCH WATERSHED (13015)								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	2.09	0.64	3.30	3.20	3.31	1.78	3.81	3.38	1.06	4.50	3.35	1.78	32.20					
	O	1.004	0.369	0.803	0.429	0.384	0.205	0.168	0.242	0.063	0.220	0.481	0.305	4.674					
STA AV	P	2.56	3.43	3.45	2.21	3.23	2.79	3.36	3.72	3.35	2.94	3.08	2.94	37.08					
	Q	0.939	1.210	1.325	0.719	0.486	0.411	0.249	0.555	0.256	0.424	0.551	0.683	7.808					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		8-14	0.071	8-14	0.061	8-14	0.090	3-16	0.115	3-16	0.166	3-16	0.217	3-16	0.268	1-13	0.493		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-23	0.390	8-23	0.330	8-24	0.550	8-24	1.030	8-23	1.630	8-23	2.260	8-22	2.420	8-20	2.800		
		1967		1967		1967		1967		1967		1967		1967		1967			

NOTES: Watershed conditions: Mixed cover, corn, 3%; tobacco, 2%; hay crops, 25%; permanent pasture, usually a good cover of native grass mixture, 26%; farm woods, a mixture of hardwoods and pine, 37%; roads, 1%; idle, 6%. Topographic map included in this publication. For drainage pattern map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 13.15-5. Precipitation: Thiessen weighted from R-1, R-2, and R-3. STA AV determined from continuous records from September 1960 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Bedford, Virginia.

1968 DAILY PRECIPITATION (inches)														BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	0.26	0.00	0.0	0.0	0.11	0.0	0.0	0.0	0.24															
2	0.0	0.32E	0.0	0.0	0.0	0.17	0.46E	0.21	0.0	0.0	0.0	0.0															
3	0.19	0.0	0.0	0.23	0.04	0.0	0.07	0.04	0.0	0.07	0.00	0.10															
4	0.01	0.0	0.0	0.34	0.03	0.0	0.0	0.30	0.0	0.0	0.09	0.09															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0															
6	0.17M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.51	0.15	0.0															
7	0.05M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.15	0.0															
8	0.0	0.0	0.0	0.02E	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.06M	0.0	0.0	0.0	0.0	0.52	0.0	0.23	0.0	0.0	0.27M	0.0															
10	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.05	0.66	0.0	0.39M	0.0															
11	0.0	0.0	0.02E	0.0	0.08	0.00	0.34	0.17	0.00	0.0	0.35S	0.0															
12	0.0	0.0	1.02E	0.0	0.21	0.0	0.02	0.0	0.0	1.01	0.96S	0.0															
13	1.03M	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0E															
14	0.40S	0.0	0.0	0.0	0.61	0.0	0.10E	1.92	0.0	0.0	0.0	0.11E															
15	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0															
16	0.0	0.0	1.22E	0.0	0.0	0.0	0.0	0.06	0.0	0.09	0.07	0.0															
17	0.0	0.0	0.04	0.0	0.0	0.42	0.64	0.0	0.0	0.0	0.07	0.0															
18	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.04	0.0	0.94	0.77	0.0															
19	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	1.50	0.0	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.74															
23	0.13S	0.0	0.32E	0.30	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.03															
24	0.03S	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.03E	0.07	0.0															
25	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.23	0.34	0.45	0.0	0.0	0.0	0.0	0.0															
27	0.0	0.0	0.0	0.20	1.86	0.0	0.57	0.0	0.0	0.0	0.00	0.0															
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46															
29	0.0	0.32S	0.0	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
31	0.0		0.19		0.0																						
TOTAL	2.09	0.64	3.30	3.20	3.31	1.78	3.81	3.38	1.06	4.50	3.35	1.78															
STA AV	2.56	3.43	3.45	2.21	3.23	2.79	3.36	3.72	3.35	2.94	3.08	2.94															

NOTES: Precipitation amounts are Thiessen weighted values from rain gages R-1, R-2, and R-3. STA AV based on record period September 1960 through 1968.

1968 MEAN DAILY DISCHARGE (cfs) BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.214	0.766	0.459	0.833	0.763	0.426	0.146	0.182	0.125	0.074	0.245	0.387
2	0.992	0.942	0.508	0.646	0.646	0.446	0.150	0.315	0.120	0.077	0.237	0.467
3	0.991	0.808	0.437	0.724	0.594	0.419	0.268	0.227	0.084	0.104	0.227	0.343
4	1.771	0.761	0.446	0.787	0.520	0.415	0.215	0.227	0.103	0.108	0.250	0.569
5	1.240	0.723	0.413	0.956	0.453	0.336	0.175	0.228	0.088	0.082	0.256	0.481
6	1.025	0.674	0.505	0.652	0.416	0.329	0.162	0.165	0.188	0.089	0.262	0.454
7	0.953	0.647	0.454	0.665	0.416	0.355	0.151	0.132	0.103	0.282	0.307	0.419
8	0.757	0.659	0.454	0.665	0.416	0.393	0.157	0.145	0.091	0.112	0.245	0.375
9	0.738	0.607	0.454	0.649	0.397	0.634	0.137	0.145	0.083	0.112	0.260	0.348
10	0.736	0.554	0.618	0.631	0.359	0.413	0.138	0.170	0.178	0.091	0.525	0.345
11	0.631	0.511	0.527	0.566	0.344	0.345	0.181	0.198	0.182	0.095	0.383	0.305
12	0.576	0.518	2.308	0.549	0.455	0.338	0.188	0.174	0.085	0.346	4.846	0.347
13	1.535	0.497	1.777	0.542	0.385	0.296	0.235	0.139	0.094	0.420	1.453	0.362
14	8.612	0.538	1.058	0.539	0.573	0.277	0.837	5.117	0.101	0.161	0.869	0.395
15	2.303	0.549	0.934	0.536	0.526	0.267	0.379	0.601	0.085	0.146	0.681	0.336
16	1.569	0.536	4.402	0.489	0.397	0.265	0.176	0.336	0.097	0.150	0.599	0.314
17	1.483	0.532	6.647	0.491	0.359	0.406	0.400	0.273	0.097	0.163	0.527	0.312
18	1.904	0.477	2.062	0.420	0.340	0.300	0.344	0.206	0.075	0.437	2.353	0.345
19	2.154	0.461	1.440	0.483	0.383	0.278	0.235	0.209	0.077	3.068	1.379	0.347
20	1.644	0.512	1.184	0.413	0.364	0.232	0.169	0.175	0.076	0.651	0.874	0.361
21	1.695	0.506	1.027	0.467	0.310	0.225	0.127	0.162	0.070	0.375	0.643	0.312
22	1.405	0.445	0.920	0.447	0.345	0.226	0.147	0.128	0.070	0.305	0.585	0.614
23	1.434	0.450	1.060	0.416	0.357	0.217	0.143	0.129	0.070	0.288	0.522	0.725
24	1.308	0.497	0.847	0.841	0.351	0.204	0.133	0.176	0.065	0.275	0.424	0.477
25	0.981	0.464	0.776	0.511	0.315	0.186	0.163	0.149	0.051	0.272	0.459	0.436
26	0.881	0.431	0.723	0.456	0.341	0.195	0.367	0.131	0.066	0.236	0.415	0.413
27	0.852	0.434	0.686	0.492	2.985	0.224	0.698	0.099	0.081	0.283	0.357	0.424
28	0.849	0.408	0.644	0.442	1.124	0.173	0.264	0.087	0.074	0.271	0.416	0.877
29	0.839	0.513	0.657	1.587	0.744	0.166	0.213	0.117	0.070	0.232	0.392	0.602
30	0.826		0.654	1.186	0.592	0.138	0.199	0.098	0.070	0.233	0.378	0.526
31	0.751		0.620		0.502		0.185	0.098		0.231		0.546
MEAN	1.4403	0.5663	1.1515	0.6361	0.5507	0.3042	0.2413	0.3464	0.0940	0.3151	0.7122	0.4376
INCHES	1.004	0.369	0.803	0.429	0.384	0.205	0.168	0.242	0.063	0.220	0.481	0.305
STA AV	0.939	1.210	1.325	0.719	0.486	0.411	0.249	0.555	0.256	0.424	0.551	0.683

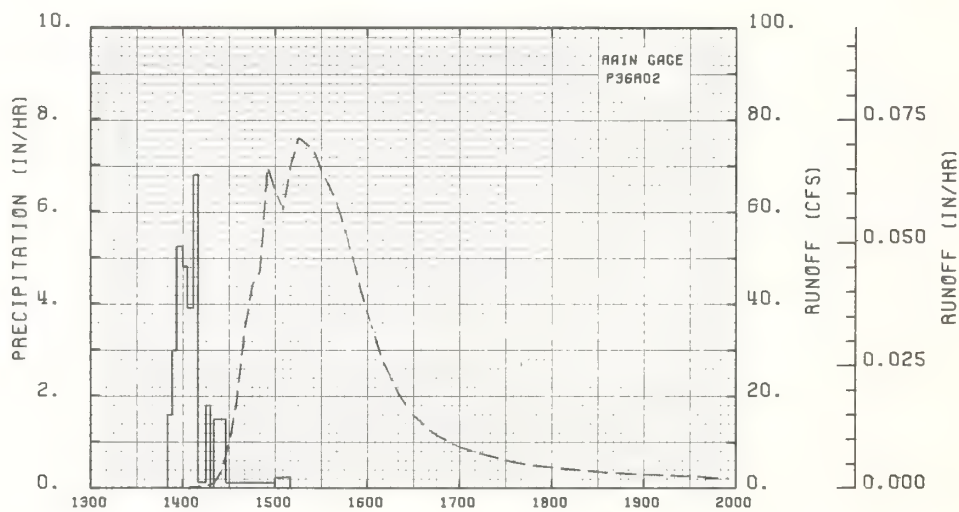
NOTES: To convert CFS to IN/DAY, multiply by 0.022495. STA AV based on record period September 1960 through 1968.

1968 SELECTED RUNOFF EVENT BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 14 - 15, 1968												
RG P36R02			RG P36R02									
8-14	0.0	0.002	8-14	1350	0.0	0.0	8-14	1405	0.20	0.0		
				1353	1.6000	0.08		1415	0.47	0.0001		
				1356	3.0000	0.23		1420	1.09	0.0002		
				1400	5.2501	0.58		1425	3.65	0.0004		
				1403	4.8000	0.82		1430	9.58	0.0009		
WATERSHED CONDITIONS:				1407	3.8999	1.08		1435	19.12	0.0020		
Mixed cover, corn, 3%;				1410	6.8000	1.42		1440	33.96	0.0040		
tobacco, 2%; hay crops, 25%;				1415	0.1200	1.43		1445	44.02	0.0071		
permanent pasture, usually a				1418	1.8000	1.52		1450	47.00	0.0106		
good cover of native grass				1420	0.0	1.52		1455	69.59	0.0151		
mixture, 26%; farm woods, a				1428	1.4993	1.72		1500	64.45	0.0205		
mixture of hardwoods and				1444	0.1125	1.75		1505	60.30	0.0253		
pine, 37%; roads, 1%; idle,				1500	0.1125	1.78		1510	69.93	0.0303		
6%.				1510	0.2400	1.82		1515	75.86	0.0362		
								1525	73.14	0.0477		
								1530	68.67	0.0534		
								1535	65.36	0.0586		
								1540	61.85	0.0635		
								1545	56.46	0.0683		
								1550	50.38	0.0724		
								1555	43.94	0.0760		
								1600	38.04	0.0793		
								1605	32.74	0.0820		
								1610	27.71	0.0843		
								1615	24.15	0.0864		
								1620	20.48	0.0881		
								1625	17.99	0.0896		
								1630	15.67	0.0910		
								1635	14.20	0.0921		
								1640	12.66	0.0931		
								1645	11.40	0.0941		
								1650	10.51	0.0949		
								1655	9.59	0.0957		
								1700	8.81	0.0964		
								1705	8.32	0.0971		

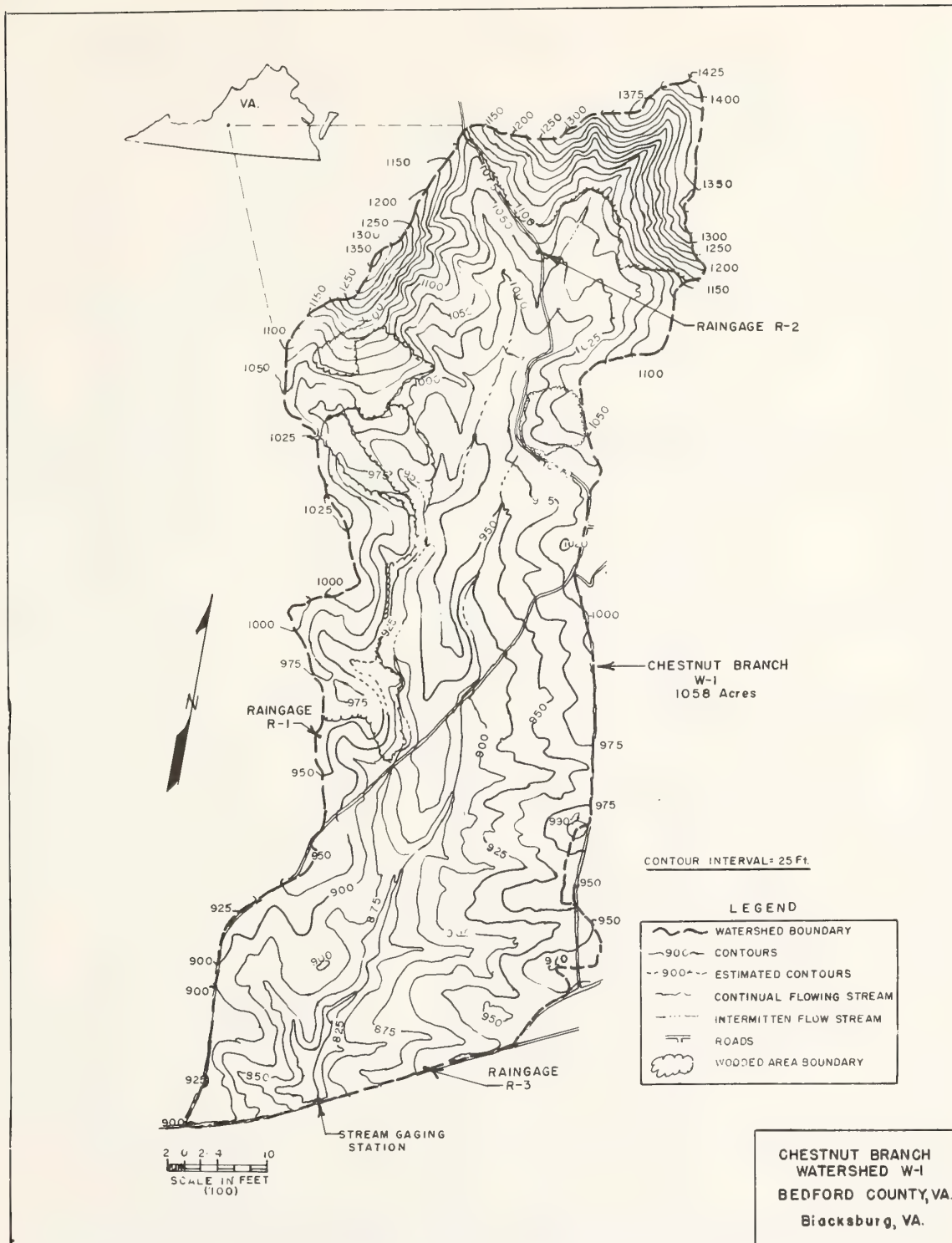
NOTES: To convert CFS to IN/HR, multiply by 0.0009375.

1968	SELECTED RUNOFF EVENT			BLACKSBURG VIRGINIA						CHESTNUT BRANCH WATERSHED (13015)	
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 14 - 15, 1968 (CONTINUED)											
							8-14	1710	7.81	0.0977	
								1715	7.29	0.0983	
								1720	6.77	0.0988	
								1725	6.36	0.0993	
								1730	5.95	0.0998	
								1735	5.55	0.1002	
								1745	4.95	0.1010	
								1755	4.59	0.1017	
								1805	4.27	0.1024	
								1815	3.94	0.1030	
								1825	3.61	0.1036	
								1835	3.30	0.1041	
								1845	3.13	0.1046	
								1855	2.89	0.1051	
								1905	2.78	0.1055	
								1915	2.66	0.1059	
								1925	2.53	0.1063	
								1935	2.40	0.1067	
								1945	2.15	0.1071	
								1955	2.04	0.1074	
								2010	1.92	0.1079	
								2020	1.83	0.1082	
								2035	1.75	0.1086	
								2050	1.66	0.1090	
								2105	1.58	0.1094	
								2125	1.49	0.1099	
								2145	1.41	0.1104	
								2215	1.32	0.1110	
								2245	1.24	0.1116	
								2315	1.15	0.1122	
								2400	1.07	0.1130	
							8-15	20	1.07	0.1133	
								100	1.01	0.1139	

NOTES: To convert CFS to IN/HR, multiply by 0.0009375.



EVENT OF AUGUST 14 - 15, 1968
BLACKSBURG VIRGINIA CHESTNUT BRANCH WATERSHED (13015)



KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

LOCATION: Northumberland County, Pennsylvania 6 miles northeast of Klingerstown, Pennsylvania Mahantango Creek Watershed, Susquehanna River Basin.

AREA: 1773.00 acres 2.77 sq. miles

SLOPES: SLOPE-PERCENT 0-3 3-8 8-15 15-25 8-25 25-60
Percent of area 1.1 32.8 30.5 8.8 4.4 22.4

SOILS: Moderately weathered channery or stony loam soils developed from red, gray, or brown sandstone, siltstone, and shale.

SERIES OR TYPE (TEXTURE)	Per- cent of area	Avg. depth (in.)	TOPSOIL		SUBSOIL		SUBSTRATUM		
			Structure	Perme- ability	Structure	Perme- ability	Avg. depth (in.)	Perme- ability	Internal drainage
Leck Kill channery silt loam	19.6	8	Weak fine granular	Moderate to moderately rapid	Weak medium subangular blocky	Moderately rapid	18	Moderately rapid	Well drained
Harleton channery silt loam	17.3	10	Weak fine granular	Moderate to moderately rapid	Moderate medium subangular blocky	Moderate	20	Moderate	Well drained
Dekalb very stony sandy loam	14.9	6	Weak very fine granular	Moderately rapid	Weak medium subangular blocky	Moderately rapid	32+	N.A.	Well drained
Heckesville channery loam	13.2	9	Weak fine granular	Moderate	Moderate medium blocky	Moderately slow	24	Moderate	Well drained
Klinesville shaly silt loam	10.0	6	Weak fine granular	Moderately rapid	Weak medium subangular blocky	Moderately rapid	18+	N.A.	Well drained
Berks channery silt loam	7.8	9	Weak fine granular	Moderately rapid	Weak fine subangular blocky	Moderately rapid	25	Moderately rapid	Well drained
Weikert channery silt loam	3.5	8	Weak fine granular	Moderately rapid	Weak fine subangular blocky	Moderately rapid	20+	N.A.	Well drained
Calvin channery silt loam	2.7	9	Weak fine granular	Moderate to moderately rapid	Moderate fine subangular blocky	Moderately rapid	18	Moderately rapid	Well drained
Heckesville very stony loam	2.6	8	Weak fine granular	Moderate	Moderate coarse blocky	Moderately slow	24	Moderate	Well drained
Laidig very stony loam	1.4	8	Weak fine granular	Moderate to moderately rapid	Weak medium subangular blocky	Moderate	37	Moderately slow	Well drained
Alvira silt loam	1.3	10	Weak fine granular	Moderate	Moderate fine platy	Moderately slow	30	Slow	Somewhat poorly drained
Albrights silt loam	1.1	9	Weak fine granular	Moderate	Moderate fine blocky	Moderately slow	20	Moderately slow	Moderately well drained
Basher silt loam	1.1	9	Moderate medium granular	Moderate	Very weak medium blocky	Moderate to moderately rapid	40+	Moderate	Moderately well drained
Conyngham silt loam	0.9	9	Weak fine granular	Moderate	Moderate medium subangular blocky	Moderate	31	Slow	Poorly to somewhat poorly drained
Shelmadine silt loam	0.6	10	Weak fine granular	Moderately slow	Moderate very coarse prismatic	Slow	30	Moderately slow to moderate	Poorly drained
Dekalb extremely stony sandy loam	0.3	6	Weak fine granular	Moderately rapid	Weak medium subangular blocky	Moderately rapid	32+	N.A.	Well drained

Cooperative Research Project with USDA, Soil Conservation Service, The Pennsylvania State University Agricultural Experiment Station, and the Institute for Research on Land and Water Resources of the Pennsylvania State University

SOILS - (CONTINUED)

SERIES OR TYPE (TEXTURE)	Per- cent of area	Avg. depth (in.)	TOPSOIL		SUBSOIL		SUBSTRATUM		
			Structure	Perme- ability	Structure	Perme- ability	Avg. depth (in.)	Perme- ability	Internal drainage
Laidig gravelly loam	0.3	8	Weak fine granular	Moderate to moderately rapid	Weak fine subangular blocky	Moderate	37	Moderately slow	Well drained
Other series less than 1% of area	1.4								
Total	100.0								

EROSION: Erosion Class + 1 2 3 4 5
Percent of Area 0.0 20.4 79.6 0.0 0.0 0.0

LAND CAPABILITY: Class I II III IV V VI VII VIII
Percent of Area 0.0 29.2 32.1 10.0 0.0 5.9 22.8 0.0

GEOLOGY: The watershed lies on the north flank of the Broad Mountain anticlinorium. The strata dip to the north at 20 to 40 degrees, the interbedded red and gray sandstones, siltstones, shales and conglomerates are of Upper Devonian to Mississippian age. A thick mantle (5-20 feet) of Quaternary talus blankets the upper 10 percent of the watershed. Approximately 70 percent of the watershed is underlain by sandstone-siltstone and 30 percent by shale. The permeability of the rock strata is low. The median well yields are .005 gpm/ft/ft. Groundwater gradients are steep and roughly parallel the surface topography. Springs discharge at the contact of sandstone and shale formations in small gullies and stream channels. The watershed lies 12 miles south of the glacial boundary. The soils are thin with poorly developed horizonation. Source of data: J. B. Urban, Geologist, ARS.

SYSTEM	Formation and percent of area		Description
Quaternary	Talus	10.1	Boulder scree, large boulders and blocks of quartzite, sandstone and quartz conglomerate (6 in. dia. to 5 ft. dia.) derived from weathering of steeply dipping Mississippian rock units exposed on crest of mountain. This material partially covers Buddy Run Member of Catskill Formation.
Mississippian	Pocono Formation		
	Beckville Member	0.5	Sandstone and quartz conglomerate, lt. gray to gray brn., 300-400 feet thick, major ridgeformer of region.
Mississippian- Devonian	Catskill Formation		Angular unconformity.
	Specht Kopt Member	4.5	Sandstone and conglomerate, gray with a few red beds (250 to 800 feet) quartzose, conglomerate at base of formation, few thin shales and coal strata but usually covered (ridge former on north watershed boundary).
Devonian	Catskill Formation		
	Buddys Run Member	58.7	Sandstone and shale, red to red brown, 4,000 to 5,400 feet thick rarely exposed at surface, quartz the predominant mineral. (red graywacke) (forms valley slopes)
	Irish Valley Member	17.2	Sandstone, siltstone and shale, interbedded red brown and gray strata, 1,500 to 2,250 feet thick (typically a micaceous subgraywacke) (forms low ridges and valley slopes).
	Port Littleton Formation Trimmers Rock sandstone	9.0	Sandstone, siltstone and shale, gray to lt. brown, 2,000 to 2,400 feet thick, predominantly sandstone (forms rugged topography of inter-mountain valley with outcrops at Watershed WE-38 gage station).
TOTAL		100.0	All units indicated dip to north at 20 degrees to 40 degrees. Weir site on crest of local anticline.

SURFACE DRAINAGE: Good; Length of principal waterway approximately 8,395 feet, a natural watershed with surface flow to a well-defined waterway.

CHARACTER OF FLOW: Perennial, continuous.

INSTRUMENTATION: Runoff: Dual weir control, high flows, 16 inch broad crested concrete V-notch weir with 5 to 1 side slopes, low flows, 1.5 foot deep 90 degree sharp crested V-notch weir. Weirs supply separate stilling wells equipped with Fischer and Porter digital recorders with a 5-minute recording cycle. Precipitation: Two Fischer and Porter digital recording rain gages with a 5-minute recording cycle.

WATERSHED CONDITIONS: Mixed cover area, more than half of which is in 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: Corn 20.4 percent; small grain 20.0 percent; pasture 4.0 percent; hay 12.9 percent; vegetables 0.7 percent; orchard 0.5 percent; homesteads and roads 3.1 percent; forest 37.8 percent; and idle 0.6 percent.

GENERALLY REPRESENTS: Intensively cultivated uplands having generally good surface and internal drainage with moderate erosion in central and north central Pennsylvania. Applicable to similar lands designated as northern Appalachian Ridges and Valleys land resource area (S-147).

MONTHLY PRECIPITATION AND RUNOFF (inches)						KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38	34.83					
	Q	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168	14.322					
STA AV	P	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38	34.83					
	Q	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168	14.322					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		9-6	0.041	9-6	0.034	9-10	0.060	9-10	0.133	9-10	0.234	3-23	0.429	3-23	0.719	3-17	1.821		
MAXIMUMS FOR PERIOD OF RECORD																			
		9-6	0.041	9-6	0.034	9-10	0.060	9-10	0.133	9-10	0.234	3-23	0.429	3-23	0.719	3-17	1.821		
1968		1968		1968		1968		1968		1968		1968		1968		1968		1968	

NOTES: itation and runoff records began Jan. 1, 1968. Precipitation data Thiessen weighted average for rain gages MB37 and MB37. Length of record 1 yr (1968). For long-time precipitation records, see U.S. Weather Bureau station records at Selinsgrove, CMA Airport, Pennsylvania.

1968 DAILY AIR TEMPERATURE (degrees F)														KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	18	-3	39	32	32	25	49	26	56	38	70	59	92	67	84	62	68	59	79	54	62	39	39	32			
2	22	11	43	31	36	11	58	37	65	43	73	54	86	66	82	66	69	52	80	59	68	47	51	33			
3	29	20	32	29	32	15	62	46	79	52	69	46	77	57	86	68	78	57	70	40	49	44	50	39			
4	30	2	43	26	44	25	67	45	61	40	73	49	73	47	80	64	81	64	52	35	50	46	50	33			
5	16	4	42	22	46	33	47	26	57	36	79	56	77	59	88	67	71	63	55	33	50	42	35	26			
6	24	16	42	26	39	15	51	33	54	33	86	61	77	48	85	69	77	50	58	49	48	43	34	21			
7	15	1	41	20	40	22	60	44	63	42	87	63	79	60	85	63	75	53	61	49	47	43	30	22			
8	14	-2	37	22	54	39	62	48	68	48	84	66	86	65	86	67	75	60	62	46	47	36	28	16			
9	17	3	34	8	47	36	67	39	67	53	84	62	84	60	87	66	75	61	63	48	43	34	24	3			
10	22	2	13	6	46	36	61	41	70	53	84	58	86	67	80	56	68	62	55	51	40	34	21	3			
11	16	-6	17	10	42	28	58	34	59	51	70	60	77	64	70	47	72	57	59	53	41	30	28	15			
12	24	3	23	8	36	25	67	48	72	53	78	60	82	62	76	54	68	47	66	56	35	31	39	27			
13	32	24	24	6	30	16	79	52	57	45	66	49	86	65	80	65	74	53	68	46	37	27	49	35			
14	39	27	32	22	38	25	79	45	61	51	73	51	87	69	83	61	74	50	66	53	40	34	38	16			
15	29	8	33	18	43	34	58	36	60	52	82	63	85	66	80	57	76	55	68	52	49	39	20	10			
16	21	11	36	23	52	43	62	32	64	51	69	51	91	67	76	68	78	53	74	56	44	36	30	20			
17	36	18	38	13	44	34	68	44	70	53	63	45	92	68	89	66	79	57	75	62	50	40	35	16			
18	43	26	27	17	45	35	75	53	63	45	74	54	91	71	81	68	75	52	68	64	56	31	38	21			
19	40	26	33	21	60	41	77	48	66	41	77	52	88	65	72	64	75	50	66	41	39	30	39	28			
20	45	34	26	-1	62	49	74	51	57	40	68	44	80	53	87	69	79	51	64	46	37	22	36	33			
21	41	24	16	3	64	50	65	48	63	39	71	56	85	63	90	64	80	55	60	37	47	28	33	29			
22	42	33	27	14	63	41	53	48	66	44	82	61	88	63	90	70	83	59	65	44	47	28	36	29			
23	39	12	35	11	41	26	59	42	56	51	79	60	88	67	89	68	78	62	61	44	50	42	36	22			
24	22	7	32	11	39	22	52	34	55	44	82	65	85	67	89	67	84	61	52	45	56	37	28	14			
25	26	11	38	18	51	37	50	35	68	40	84	70	79	62	87	58	83	58	53	44	46	28	19	10			
26	37	24	40	20	59	35	65	46	73	46	73	58	83	64	72	51	71	45	49	36	50	35	22	13			
27	44	33	42	24	70	49	55	35	58	44	61	52	79	67	71	43	71	45	59	44	50	35	40	20			
28	38	34	46	30	74	48	59	44	55	46	71	53	84	50	72	51	69	41	57	38	63	45	53	28			
29	40	37	34	24	76	43	64	38	68	55	81	65	77	49	73	47	63	45	46	29	49	37	29	25			
30	40	34			64	48	58	39	69	49	90	66	79	64	73	47	70	45	46	25	38	32	32	22			
31	37	31			70	42			60	49			80	68	76	52			51	32				5			
AV.	30	16	33	17	49	33	62	41	63	46	76	57	83	62	81	60	74	54	61	45	47	35	34	21			
MEAN	23.3		25.5		41.5		51.7		54.7		66.6		72.8		71.1		64.4		53.6		41.8		28.1				
STA AV	30	16	33	17	49	33	62	41	63	46	76	57	83	62	81	60	74	54	61	45	47	35	34	21			

NOTES: Temperature data taken daily with maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 0930 for the date shown to 0930 the following day. Data recorded at MB37 meteorological station. STA AV based on 1 yr (1968) record.

KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38												
1968	DAILY PRECIPITATION (inches)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.055	0.24	0.0	0.0	0.0	1.53	0.0	0.0	0.05	0.30
2	0.0	0.30	0.0	0.0	0.0	0.30	0.0	0.0	0.36	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.11	0.15	0.0	0.0	0.0	0.30	0.05	0.0
4	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.34
5	0.0	0.0	0.0	0.10	0.05	0.0	0.0	0.0	0.24	0.0	0.05	0.0
6	0.0	0.0	0.0	0.0	0.05	0.0	0.0	1.40	2.47	0.24	0.25	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.25	0.79	0.0
8	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0
10	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	2.03	0.05	0.24	0.0
11	0.0	0.0	0.05	0.0	0.45	0.0	0.0	0.05	0.05	0.0	0.0 S	0.0
12	0.0	0.0	0.35	0.0	0.0	1.05	0.0	0.0	0.0	0.05	0.29S	0.0
13	0.0	0.0	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
14	0.55S	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.20
15	0.05S	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.35	0.0	0.20	0.50	0.0	0.05	0.0	0.0	0.25	0.0
17	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0
18	0.0	0.0	0.30	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.49	0.0
19	0.0	0.0	0.05	0.0	0.44	0.34	0.05	0.10	0.0	0.89	0.05	0.0
20	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.05
21	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.24	0.0	0.0	0.09	0.10	0.05	0.0	0.0	0.20
23	0.0	0.0	1.04	0.0	0.30	0.0	0.05	0.20	0.0	0.0	0.0	0.10
24	0.0	0.0	0.0	1.58	0.40	0.05	0.67	0.80	0.0	0.14	0.25	0.0
25	0.0	0.0	0.0	0.0	0.0	0.65	0.05	0.0	0.24	0.20	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.05	0.0	0.20	0.45	0.0	0.0	0.0	0.0	0.0	0.10
28	0.20	0.0	0.0	0.0	1.39	0.10	0.0	0.0	0.0	0.05	0.10	0.0
29	0.05	0.20	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.30	0.0
30	0.65	0.0	0.0	0.24	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38
STA AV	1.53	0.55	3.37	3.11	4.84	3.63	0.92	4.32	5.45	2.18	3.55	1.38

NOTES: Precipitation values are Thiessen weighted average of rain gages MB37 and ME37. STA AV based on 1 yr (1968) record.

KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.344	14.105	1.098	4.150	3.130	13.903	1.171	2.543	0.239	0.528	0.373	2.362
2	1.264	13.824	1.118	3.268	2.771	10.578	1.007	0.867	0.405	0.501	0.368	3.388
3	1.303	14.584	0.926	3.030	2.489	7.505	0.910	0.539	0.296	0.638	0.392	3.158
4	1.322	10.743	1.005	2.947	2.342	5.936	0.864	0.506	0.250	0.533	0.391	6.283
5	1.207	7.990	1.112	2.774	2.044	4.744	0.779	0.404	0.265	0.467	0.383	7.471
6	1.170	6.633	1.078	2.294	1.823	4.006	0.746	2.093	11.055	0.493	0.422	6.212
7	1.110	5.584	0.946	2.206	1.630	3.437	0.697	2.092	4.341	0.880	2.049	4.740
8	2.328	4.727	1.056	2.136	1.525	2.996	0.691	1.033	2.360	0.516	1.828	3.792
9	1.054	4.106	1.150	1.915	1.546	2.665	0.684	0.790	1.600	0.459	1.427	2.946
10	1.010	3.401	1.627	1.849	1.472	2.334	0.641	0.664	12.111	0.470	1.944	2.481
11	0.911	3.226	1.607	1.713	1.652	2.155	0.630	0.542	22.729	0.474	1.746	2.204
12	1.900	2.654	1.405	1.576	1.661	4.313	0.593	0.463	9.072	0.447	2.289	2.109
13	0.907	2.185	1.806	1.488	1.405	2.783	0.533	0.447	4.768	0.448	2.478	2.153
14	0.935	2.182	1.619	1.455	1.290	2.178	0.500	0.464	3.071	0.432	2.525	2.425
15	1.319	2.079	1.533	1.477	1.302	1.876	0.502	0.373	2.234	0.410	4.576	1.844
16	2.059	1.878	2.033	1.335	1.468	2.648	0.451	0.404	1.770	0.393	13.928	1.741
17	2.326	1.666	19.625	1.251	1.269	2.038	0.419	0.399	1.481	0.383	18.078	1.432
18	2.081	1.605	19.811	1.113	1.271	1.752	0.421	0.333	1.247	0.398	18.132	1.329
19	1.982	1.501	15.955	1.204	1.498	2.076	0.385	0.384	1.105	1.463	17.100	1.409
20	2.159	1.477	11.587	1.131	1.478	1.786	0.327	0.361	0.994	0.715	10.257	1.375
21	3.151	1.408	9.262	1.122	1.257	1.501	0.301	0.277	0.925	0.520	6.517	1.200
22	4.030	1.263	8.796	1.336	1.123	1.369	0.296	0.278	0.861	0.551	4.792	1.208
23	4.165	1.217	25.209	1.154	1.257	1.219	0.303	0.352	0.862	0.467	3.601	1.725
24	3.553	1.110	26.238	5.814	1.965	1.164	0.792	1.286	0.804	0.473	3.404	1.291
25	3.110	1.054	14.136	6.748	1.558	1.127	0.677	0.539	0.868	0.646	2.989	1.035
26	2.814	1.025	9.794	5.570	1.435	2.443	0.408	0.401	0.766	0.471	2.400	0.925
27	2.672	1.053	7.585	4.583	1.434	1.583	0.368	0.336	0.663	0.436	2.136	0.987
28	3.033	1.049	6.435	3.786	6.652	2.269	0.352	0.326	0.608	0.456	2.024	8.941
29	4.771	1.093	5.548	3.375	12.525	1.548	0.305	0.368	0.554	0.435	3.367	4.568
30	16.301	4.593	3.563	15.053	1.314	0.280	0.282	0.536	0.399	2.239	2.313	
31	22.670	4.093		22.472		0.283	0.232		0.365		1.919	
MEAN	3.2245	4.0141	6.7670	2.5787	3.2837	3.2410	0.5572	0.6574	2.9613	0.5247	4.4716	2.8052
INCHES	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168
STA AV	1.343	1.563	2.817	1.039	1.367	1.306	0.232	0.274	1.193	0.218	1.802	1.168

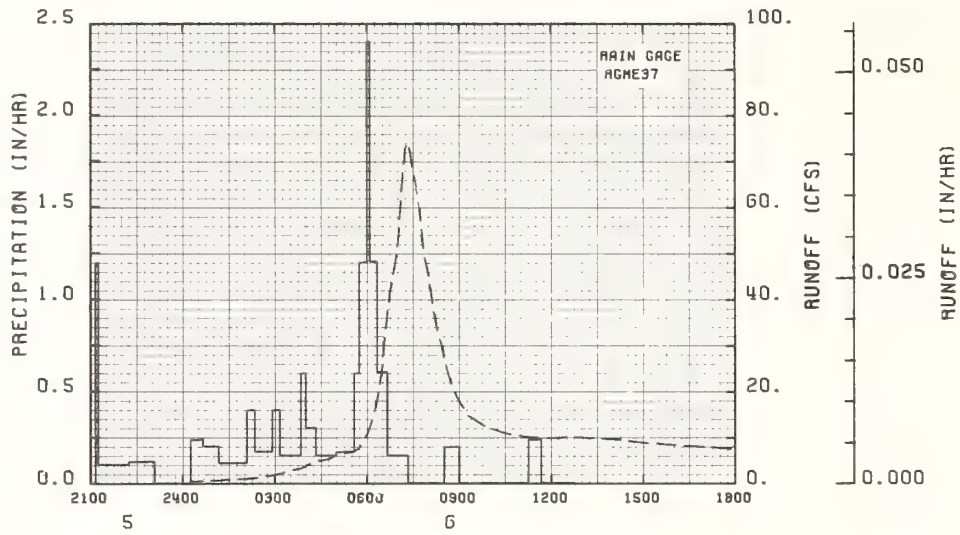
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013426. Records are good. Some periods of winter records are affected by ice on control, no adjustments were made for these records. STA AV based on 1 yr (1968) record period.

1968 SELECTED RUNOFF EVENT			KLINGERSTOWN, PENNSYLVANIA				WATERSHED #2-38			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 5 - 6, 1968										
RG	ME37		RG	ME37						
9- 5	0.0		9- 5	2110	0.0	0.0	9- 6	20	0.520	0.0
9- 6		0.000		2115	1.1999	0.10		30	0.540	0.0
				2215	0.1000	0.20		45	0.590	0.0001
				2305	0.1200	0.30		55	0.650	0.0002
			9- 6	10	0.0	0.30		105	0.730	0.0003
WATERSHED CONDITIONS:				15	0.0	0.30		115	0.760	0.0004
Predominantly strip crop				40	0.2400	0.40		125	0.860	0.0005
contour row cultivation,				110	0.2000	0.50		140	0.960	0.0006
with corn in harvest, 20.4%;				205	0.1091	0.60		150	0.990	0.0007
small grain stubble with				220	0.4000	0.70		200	1.100	0.0008
grass cover 20.0%; pasture,										
4.0%; hay rotation crop, 2.9%;				255	0.1714	0.80		215	1.220	0.0010
vegetable crops dormant and				310	0.4000	0.90		225	1.300	0.0011
idle, 0.7%; orchards, 5.0%;				350	0.1500	1.00		230	1.390	0.0012
homesteads and roads, 3.1%;				400	0.6000	1.10		235	1.480	0.0013
forest, 37.8%; and idle,				420	0.3000	1.20		240	1.620	0.0014
0.6%. Corn approximately 6										
to 8 ft. high.				500	0.1500	1.30		245	1.710	0.0015
				535	0.1714	1.40		250	1.810	0.0016
				545	0.6000	1.50		255	1.920	0.0017
				550	1.2000	1.60		300	2.030	0.0018
				555	1.2000	1.70		305	2.140	0.0019
				600	1.2000	1.80		310	2.250	0.0020
				605	2.4000	2.00		315	2.370	0.0021
				610	1.2000	2.10		320	2.490	0.0022
				615	1.2000	2.20		325	2.720	0.0023
				620	1.2000	2.30		330	2.860	0.0024
				630	0.6000	2.40		335	3.000	0.0025
				640	0.6000	2.50		340	3.150	0.0026
				720	0.1500	2.60		345	3.300	0.0028
				825	0.0	2.60		350	3.450	0.0030
				830	0.0	2.60		355	3.610	0.0032
				900	0.2000	2.70		400	3.940	0.0034
				1005	0.0	2.70		405	4.290	0.0036
				1115	0.0	2.70		410	4.470	0.0038
				1140	0.2400	2.80		415	4.660	0.0040
				1245	0.0	2.80		420	4.850	0.0042
								430	5.050	0.0047
								435	5.250	0.0049
								445	5.450	0.0054
								450	5.660	0.0057
								455	6.100	0.0060
								500	6.320	0.0063
								510	6.550	0.0069
								520	6.790	0.0075
								535	7.030	0.0085
								540	7.520	0.0088
								545	7.780	0.0092
								550	8.850	0.0096
								555	9.720	0.0100
								600	10.630	0.0105
								605	12.260	0.0110
								610	13.680	0.0116
								615	15.580	0.0123
								620	18.070	0.0131
								625	21.260	0.0140
								630	25.300	0.0151
								635	31.580	0.0164
								640	36.700	0.0180
								645	41.570	0.0199
								650	44.530	0.0219
								655	47.600	0.0240
								700	51.630	0.0264
								705	58.500	0.0289
								710	66.860	0.0318
								715	72.820	0.0352
								720	73.840	0.0386
								725	71.800	0.0419
								730	67.830	0.0453
								735	64.940	0.0483
								740	61.210	0.0512
								745	56.730	0.0540
								750	51.630	0.0565
								755	47.600	0.0588
								800	45.280	0.0610
								805	41.570	0.0630
								810	37.380	0.0648

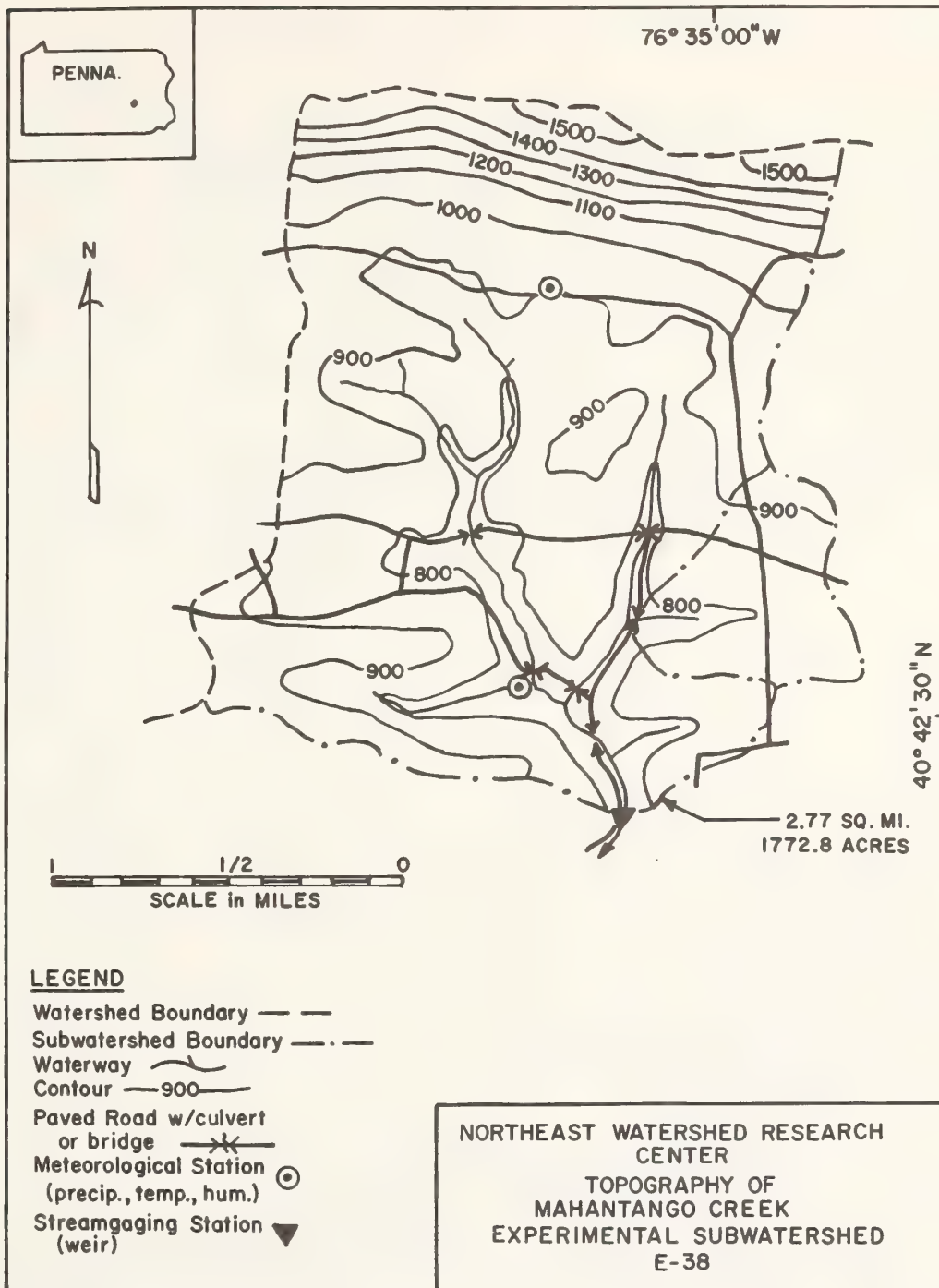
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.

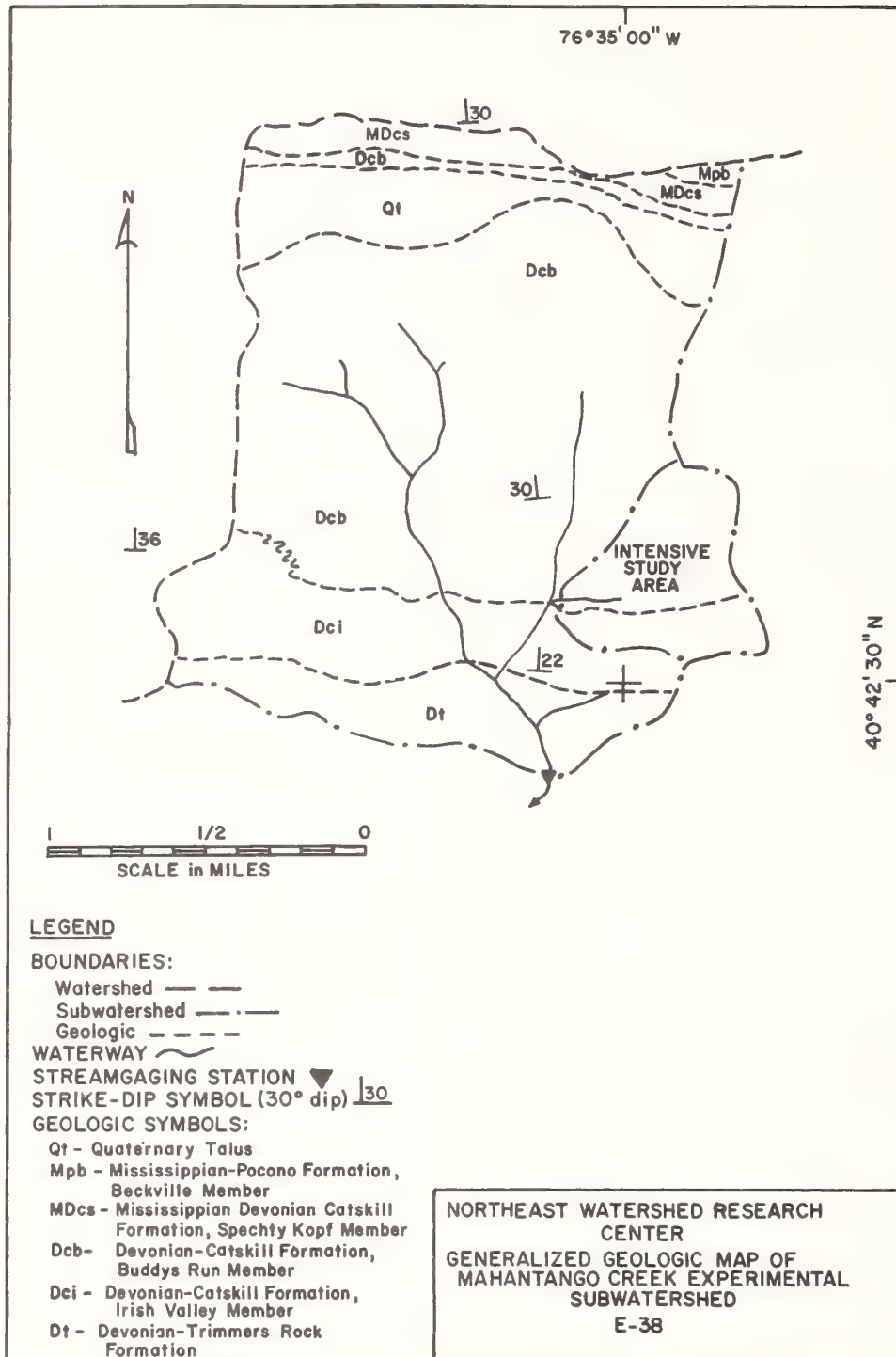
1968 SELECTED RUNOFF EVENT			KLINGERSTOWN, PENNSYLVANIA				WATERSHED WE-38			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 5 - 6, 1968 (CONTINUED)										
				9- 6			815	34.730	0.0665	
							820	31.580	0.0680	
							825	30.380	0.0698	
							830	27.490	0.0708	
							835	25.300	0.0720	
							840	23.220	0.0731	
							845	21.260	0.0742	
							850	20.310	0.0752	
							855	18.940	0.0761	
							900	17.640	0.0770	
							905	16.790	0.0778	
							910	15.980	0.0786	
							915	15.190	0.0793	
							920	14.420	0.0800	
							925	14.050	0.0807	
							930	13.680	0.0814	
							935	13.320	0.0820	
							940	12.960	0.0826	
							945	12.610	0.0832	
							950	12.260	0.0838	
							1000	11.930	0.0849	
							1005	11.590	0.0854	
							1015	11.270	0.0865	
							1025	10.940	0.0875	
							1035	10.630	0.0885	
							1050	10.320	0.0900	
							1105	10.010	0.0914	
							1145	9.720	0.0951	
							1235	10.010	0.0997	
							1315	9.720	0.1034	
							1410	9.420	0.1083	
							1420	9.130	0.1092	
							1450	8.850	0.1117	
							1515	8.580	0.1137	
							1545	8.300	0.1161	
							1620	8.040	0.1188	
							1655	7.780	0.1214	
							1735	7.520	0.1243	
							1830	7.270	0.1281	
							1940	7.030	0.1328	
							2100	6.790	0.1380	
							2235	6.550	0.1439	
							2400	6.320	0.1490	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.



EVENT OF SEPTEMBER 5 - 6, 1968
KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38





IOWA CITY, IOWA RALSTON CREEK

LOCATION: Johnson County, Iowa; North Iowa City; Ralston Creek, Iowa River, Mississippi River Basin.

AREA: 1926.00 acres 3.01 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										IOWA CITY, IOWA					RALSTON CREEK				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	0.81	0.15	1.26	3.40	3.99	4.58	2.92	2.73	5.07	2.19	0.99	2.38	30.47					
	Q	0.592	0.282	0.300	0.601	0.505	0.422	0.139	0.059	0.219	0.179	0.132	0.374	3.804					
STA AV	P	1.10	1.02	1.99	3.01	3.60	4.63	3.87	3.37	3.57	2.54	2.05	1.26	31.99					
	Q	0.434	0.896	1.219	0.737	0.686	0.801	0.492	0.295	0.327	0.287	0.384	0.263	6.820					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1968		5-26	0.045	5-26	0.037	5-26	0.059	5-26	0.102	5-26	0.123	5-26	0.144	5-26	0.394				
MAXIMUMS FOR PERIOD OF RECORD																			
		7-18	0.860	7-18	0.650	7-14	0.930	7-14	2.230	7-14	2.520	7-13	2.620	7-13	4.150				
		1956		1956		1962		1962		1962		1962		1962					

NOTES: Watershed conditions: Approximately 20% timber; 13% row crops; 6% small grain; 12% hay; 45% pasture; and 4% roads and farmsteads. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 21.1-4. Precipitation Thiessen average of five recording rain gages. Runoff records furnished by U.S. Geological Survey. Precipitation and runoff records began Sept. 1, 1924 thru Dec. 31, 1924, part year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau Station records at Dubuque, Iowa.

1968 DAILY PRECIPITATION (inches)													IOWA CITY, IOWA RALSTON CREEK	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05		
3	0.0	0.0	0.0	0.68	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.41	0.32	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.08	0.13	0.0	0.0		
6	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.46	0.0	0.04	0.0	0.07	0.0	0.07	0.0		
8	0.14	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0		
9	0.02	0.0	0.0	0.0	0.0	0.36	0.35	0.0	0.0	0.44	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.12	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0		
12	0.15	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17		
13	0.01	0.0	0.0	0.10	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.80	0.0	0.84	0.0	0.0	0.0	0.0	0.44	0.0		
15	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.15	0.0	0.0	0.03	0.0		
16	0.0	0.0	0.0	0.16	0.0	0.0	0.24	0.09	1.06	0.0	0.22	0.0		
17	0.0	0.0	0.0	0.26	0.0	0.0	0.44	0.0	1.26	0.17	0.0	0.0		
18	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.25	0.13	0.0	0.07	0.78		
19	0.0	0.0	0.05	0.69	0.06	0.0	0.0	0.0	0.43	0.0	0.0	0.11		
20	0.0	0.04	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.10		
22	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.0	0.26	0.09	0.0	0.11		
23	0.0	0.0	0.0	0.32	0.0	0.47	0.88	0.0	0.34	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.83	0.0	0.0	0.01	0.0	0.0	0.0		
25	0.0	0.0	0.09	0.0	0.62	0.46	0.0	0.0	0.0	0.0	0.0	0.03		
26	0.0	0.0	0.0	0.0	1.12	0.60	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.08	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.55		
28	0.0	0.0	0.0	0.14	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.28		
29	0.07	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.43	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.11		
31	0.34		0.19		0.43		0.13	1.54		0.0		0.0		
TOTAL		0.81	0.15	1.26	3.40	3.99	4.58	2.92	2.73	5.07	2.19	0.99	2.38	
STA AV		1.10	1.02	1.99	3.01	3.60	4.63	3.87	3.37	3.57	2.54	2.05	1.26	

NOTES: Precipitation values are Thiessen weighted from rain gages 1, 2, 3, 4, and 5. STA AV based on 44 yr (1925-1968) record period.

1968 MEAN DAILY DISCHARGE (cfs)												
						IOWA CITY, IOWA			BALSTON CREEK			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.616	11.020	0.454	0.819	1.103	1.703	0.714	0.154	0.495	0.268	0.284	0.341
2	0.584	1.403	0.478	0.754	0.989	1.005	0.551	0.138	0.122	0.251	0.251	0.381
3	0.519	0.900	0.341	1.800	0.892	0.851	0.422	0.114	0.114	0.203	0.259	0.341
4	0.478	0.754	0.478	0.989	0.819	0.714	0.592	0.073	0.170	0.203	0.259	0.316
5	0.438	0.665	0.503	0.892	0.754	0.608	0.527	0.632	0.186	0.227	0.268	0.292
6	0.430	0.584	0.454	0.795	0.714	0.584	0.349	0.162	0.114	0.349	0.259	0.259
7	0.422	0.519	0.503	0.697	1.103	0.519	0.397	0.138	0.089	0.300	0.268	0.243
8	0.430	0.503	1.500	0.592	1.305	0.397	0.324	0.122	0.559	0.308	0.259	0.211
9	0.462	0.551	1.305	0.543	0.835	0.665	0.519	0.130	0.308	0.689	0.259	0.211
10	0.478	0.397	0.730	0.495	0.754	0.641	0.268	0.122	0.162	0.284	0.284	0.243
11	0.519	0.316	0.608	0.438	0.673	0.762	0.292	0.097	0.130	0.243	0.292	0.308
12	0.559	0.300	0.519	0.495	0.624	0.397	0.227	0.089	0.122	0.227	0.268	0.624
13	0.600	0.268	0.430	0.924	0.592	0.381	0.211	0.089	0.097	0.219	0.268	0.381
14	0.641	0.284	0.543	3.211	0.730	1.305	0.203	0.089	0.089	0.211	0.551	0.186
15	0.697	0.292	0.559	1.403	1.500	0.511	0.178	0.089	0.081	0.211	0.762	0.097
16	0.803	0.308	0.665	1.200	0.924	0.422	0.219	0.097	1.403	0.178	0.924	0.211
17	1.005	0.251	0.681	2.303	0.665	0.397	0.470	0.089	4.111	0.259	0.551	0.397
18	1.500	0.219	1.800	1.305	0.608	0.357	0.462	0.114	1.297	0.178	0.438	2.903
19	2.206	0.251	2.303	1.906	0.624	0.308	0.211	0.114	1.297	0.178	0.381	7.225
20	3.008	0.284	1.103	6.009	0.519	0.414	0.170	0.073	0.519	0.170	0.341	2.003
21	2.506	0.324	0.770	3.008	0.478	0.341	0.162	0.041	0.397	1.808	0.381	0.803
22	2.003	0.349	0.608	2.303	0.527	0.357	0.162	0.032	0.795	3.819	0.341	0.641
23	1.305	0.332	0.592	3.308	0.754	0.414	0.884	0.016	2.108	0.730	0.357	0.454
24	0.900	0.308	0.641	2.603	0.543	2.506	0.624	0.008	0.892	0.519	0.324	0.349
25	7.014	0.300	0.770	2.003	1.200	4.208	0.227	0.0	0.422	0.422	0.324	0.300
26	7.817	0.300	0.835	1.800	11.020	7.022	0.186	0.0	0.292	0.389	0.324	0.454
27	2.003	0.292	0.851	1.500	2.708	1.703	0.973	0.0	0.243	0.373	0.292	4.014
28	3.008	0.300	0.795	1.606	2.003	1.005	0.219	0.0	0.268	0.341	0.324	2.506
29	2.003	0.308	0.689	1.703	2.206	2.603	0.178	0.0	0.584	0.324	0.292	1.500
30	1.103		0.754	1.305	1.200	1.103	0.170	0.0	0.300	0.308	0.292	1.200
31	1.906		1.103		1.606		0.178	1.995		0.300		0.900
MEAN	1.5470	0.7890	0.7860	1.6240	1.3220	1.1400	0.3640	0.1550	0.5920	0.4670	0.3560	0.9770
INCHES	0.592	0.282	0.300	0.601	0.505	0.422	0.139	0.059	0.219	0.179	0.132	0.374
STA AV	0.434	0.896	1.219	0.737	0.686	0.801	0.492	0.295	0.327	0.287	0.384	0.263

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.012358. STA AV based on 44 yr (1925-1968) record period.

MCCREDIE, MISSOURI STATION RESERVOIR W-1

LOCATION: Callaway County, Mo.; 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missouri River Basin.

AREA: 153.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														MCCREDIE, MISSOURI STATION RESERVOIR W-1														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	0.70	0.58	0.57	2.61	6.53	5.18	4.68	3.34	5.40	6.83	4.10	2.82	43.34														
	Q	0.201	0.189	0.0	0.073	1.216	0.166	0.730	1.977	0.378	5.034	1.758	1.447	13.169														
STA AV	P	1.38	1.60	2.69	3.62	4.11	4.35	3.56	2.84	3.58	3.46	1.98	1.66	34.83														
	Q	0.441	0.653	1.138	1.063	0.776	0.710	0.421	0.138	0.399	0.932	0.400	0.370	7.442														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																												
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval										2 Days		8 Days								
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		Date		Vol.	Date		Vol.	Date		Vol.	Date		Vol.	Date		Vol.
1968		10-13	2.269	10-13	1.365	10-13	2.236	10-13	3.635	10-13	4.282	10-13	4.610	10-13	4.610	10-13	4.850	10- 9	5.025									
MAXIMUMS FOR PERIOD OF RECORD																												
		10-13	2.269	10-13	1.365	10-13	2.236	10- 4	3.960	10- 4	7.000	10- 4	7.775	10- 3	8.090	10- 2	8.840											
		1968		1968		1968		1941		1941		1941		1941		1941												

NOTES: Watershed conditions: 39% Pasture and meadow; 23% alfalfa; 31% rowcrops of corn and soybeans; 1% small grains; and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan. 1, 1941. Runoff amounts, or rates, which are reported as inches or inches per hour, respectively, were computed with a constant watershed area of 153 acres, including reservoir surface area. Previous published runoff amounts and rates were computed with a variable watershed area equal to the total area less the reservoir surface area, which was a function of reservoir stage. For revised topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 25.1-8. For long-time precipitation records, see U.S. Weather Bureau records at Columbia, Missouri (1890-1968).

1968 DAILY AIR TEMPERATURE (degrees F)														MCCREDIE, MISSOURI STATION RESERVOIR W-1													
Day	Jan	Jan	Feb	Feb	Mar	Mar	Apr	Apr	May	May	Jun	Jun	Jul	Jul	Aug	Aug	Sep	Sep	Oct	Oct	Nov	Nov	Dec	Dec			
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	20	-4	60	41	58	16	58	30	84	57	75	63	84	64	76	59	79	55	82	58	77	62	40	32			
2	23	14	45	28	53	31	55	40	88	50	81	54	81	62	75	60	88	56	80	62	66	46	50	38			
3	15	5	51	38	41	15	67	48	88	61	87	61	75	52	90	69	89	62	79	44	49	39	47	30			
4	16	8	52	37	56	22	62	35	73	46	89	64	78	51	92	70	86	63	61	35	59	33	52	25			
5	35	5	48	32	56	39	45	32	68	39	87	63	84	58	92	74	77	55	61	39	53	34	48	27			
6	33	4	48	27	53	31	61	28	69	40	86	66	84	63	93	74	82	49	55	46	51	43	42	19			
7	8	-13	37	25	60	26	76	44	72	50	85	66	85	65	92	74	86	53	68	40	43	39	38	22			
8	18	-2	39	21	68	40	64	43	77	45	88	64	86	63	95	74	85	61	73	46	39	30	33	12			
9	33	14	38	29	68	39	68	37	77	50	90	67	86	65	90	72	66	57	72	55	39	26	42	19			
10	29	10	31	18	49	37	69	39	65	45	90	69	80	64	82	72	73	51	65	38	44	28	50	22			
11	25	7	36	8	40	31	78	41	60	50	88	66	84	54	74	62	73	46	70	37	34	31	56	28			
12	28	20	32	16	40	30	78	49	74	46	84	62	91	58	72	65	75	46	74	52	42	25	59	51			
13	23	10	29	12	41	17	73	54	72	57	83	55	90	65	84	68	82	45	71	61	53	26	54	20			
14	30	19	33	13	52	29	64	46	85	58	91	67	89	68	85	66	82	48	85	60	59	47	21	9			
15	33	24	40	26	50	40	70	33	86	64	90	64	87	68	85	73	81	52	84	68	60	40	27	8			
16	30	12	51	24	64	29	70	50	81	52	72	69	89	72	92	75	77	63	82	64	44	42	41	20			
17	51	22	50	15	71	36	78	53	71	51	81	57	90	75	92	69	75	62	78	53	45	42	37	24			
18	45	37	38	12	64	52	76	52	68	45	83	60	88	68	88	67	73	52	62	38	38	34	53	35			
19	51	26	54	25	63	50	69	52	61	42	85	66	85	69	94	64	70	56	70	40	35	30	50	33			
20	56	36	51	25	58	30	67	58	63	45	88	62	87	62	95	72	87	54	69	42	41	21	34	21			
21	52	34	28	8	35	26	68	45	67	43	91	66	93	64	94	72	87	60	79	44	60	31	32	24			
22	54	32	32	9	36	24	73	53	68	43	91	72	95	69	94	73	83	62	77	48	64	28	41	25			
23	45	28	36	11	36	20	70	43	56	52	91	68	94	72	84	73	83	67	60	42	62	48	29	21			
24	30	18	40	15	59	25	56	34	66	53	84	71	90	73	93	74	76	66	60	40	59	33	26	13			
25	49	30	42	22	72	38	64	32	66	55	80	67	82	71	86	60	76	52	54	29	56	31	29	19			
26	65	32	35	34	78	44	62	44	66	55	78	54	83	71	85	57	78	55	66	30	54	47	52	28			
27	65	50	37	30	74	50	65	37	68	48	70	50	89	74	83	61	80	48	65	45	44	37	54	41			
28	64	46	41	28	77	52	71	42	74	53	88	52	86	66	79	50	78	52	44	37	41	33	41	23			
29	60	41	37	16	77	53	71	43	78	52	90	69	80	58	79	57	83	54	60	28	43	33	32	22			
30	47	30			78	54	80	48	73	50	89	75	83	64	78	57	82	54	75	35	46	20	36	24			
31	58	40			61	36			71	55			85	62	76	62			83	51			14	-5			
AV.	38	20	41	22	57	34	67	42	72	50	85	63	86	64	86	67	79	55	69	45	50	35	40	23			
MEAN	29.5		31.7		46.0		55.3		61.1		74.4		75.4		76.7		67.5		57.6		42.7		32.1				
STA AV	40	20	44	23	53	31	67	43	75	52	84	62	88	65	88	63	81	55	71	45	54	33	42	24			

NOTES: Temperature data taken daily with the maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 1700 of the previous day to 1700 of the day on which values are recorded. STA AV based on 28 yr (1941-1968) record period.

1968	DAILY PRECIPITATION (inches)					MCCREDIE, MISSOURI				STATION RESERVOIR W-1			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.49	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.32	
2	0.0	0.0	0.0	0.52	0.0	0.0	0.0	2.65	0.0	0.08	0.23	0.0	
3	0.0	0.0	0.0	0.80	0.04	0.0	0.0	0.09	0.0	0.0	0.20	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.03	0.29	0.0	
7	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.16	0.0	0.0	0.0	0.0	
8	0.02	0.0	0.12	0.0	1.04	0.0	0.0	0.0	0.63	0.0	0.0	0.0	
9	0.03	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.45	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
11	0.0	0.0	0.0	0.0	0.07	0.23	0.0	0.0	0.0	0.0	0.27	0.0	
12	0.02	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
13	0.04	0.0	0.0	0.27	0.04	0.0	0.17	0.0	0.0	5.89	0.0	0.0	
14	0.01	0.0	0.0	0.0	0.0	0.06	0.80	0.0	0.0	0.0	0.02	0.0	
15	0.0	0.0	0.14	0.0	0.31	0.60	0.0	0.17	0.18	0.0	1.57	0.0	
16	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	1.76	0.0	0.05	0.0	
17	0.0	0.0	0.0	0.03	0.0	0.0	0.74	0.08	0.50	0.25	0.03	0.0	
18	0.0	0.0	0.02	0.45	0.0	0.0	0.07	0.0	0.01	0.0	0.0	0.27	
19	0.0	0.0	0.16	0.25	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
20	0.0	0.0	0.09	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.02	0.0	0.0	0.0	0.01	0.0	0.59	0.0	0.0	0.05	
22	0.0	0.0	0.0	0.21	0.82	0.0	0.0	0.0	0.30	0.08	0.0	0.03	
23	0.0	0.0	0.0	0.0	2.33	0.0	0.0	0.0	1.20	0.03	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	1.65	0.13	0.0	0.07	0.0	0.0	0.0	
25	0.0	0.02	0.0	0.01	1.31	0.98	0.76	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.07	0.0	0.0	0.0	0.01	0.56	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	2.03	
28	0.08	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	1.40	0.10	
29	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	1.63	0.0	0.17	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.41	0.0	0.75	0.02	0.0	0.0	0.0	0.0	
TOTAL	0.70	0.58	0.57	2.61	6.53	5.18	4.68	3.34	5.40	6.83	4.10	2.82	
STA AV	1.38	1.60	2.69	3.62	4.11	4.35	3.56	2.84	3.58	3.46	1.98	1.66	

NOTES: Precipitation data are Thiessen weighted values for 4 recording rain gages and 1 non-recording rain gage. STA AV values are for 28 yr (1941-1968) record period.

1968	MEAN DAILY DISCHARGE (cfs)					MCCREDIE, MISSOURI			STATION RESERVOIR W-1			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	1.112	0.0	0.0	0.0	0.0	4.420	0.0	0.0	0.0	0.0	0.691
2	0.0	0.103	0.0	0.0	0.0	0.0	0.132	6.623	0.0	0.0	0.0	0.207
3	0.0	0.0	0.0	0.456	0.0	0.0	0.028	4.396	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.813	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.414	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.205	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.185	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.081	0.0	0.0	0.071	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.075	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.123	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0	1.832	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.945	3.892	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.230	0.274	0.998	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.294	0.104	0.310	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.130	0.094
19	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.060	0.0	0.0	0.0
22	0.149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0	0.0	0.0
23	0.078	0.0	0.0	0.0	2.667	0.0	0.0	0.0	1.473	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.903	0.097	0.0	0.0	0.311	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	4.045	0.694	0.0	0.0	0.028	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.120	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.286
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.686	0.977
29	0.326	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.251	0.047
30	0.321	0.0	0.0	0.0	0.0	0.279	0.0	0.0	0.0	0.0	0.070	0.0
31	0.356	0.0	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0
MEAN	0.0420	0.0419	0.0	0.0157	0.2522	0.0357	0.1513	0.4099	0.0809	1.0438	0.3767	0.3001
INCHES	0.201	0.189	0.0	0.073	1.216	0.166	0.730	1.977	0.378	5.034	1.758	1.447
STA AV	0.441	0.653	1.138	1.063	0.776	0.710	0.421	0.138	0.399	0.932	0.400	0.370

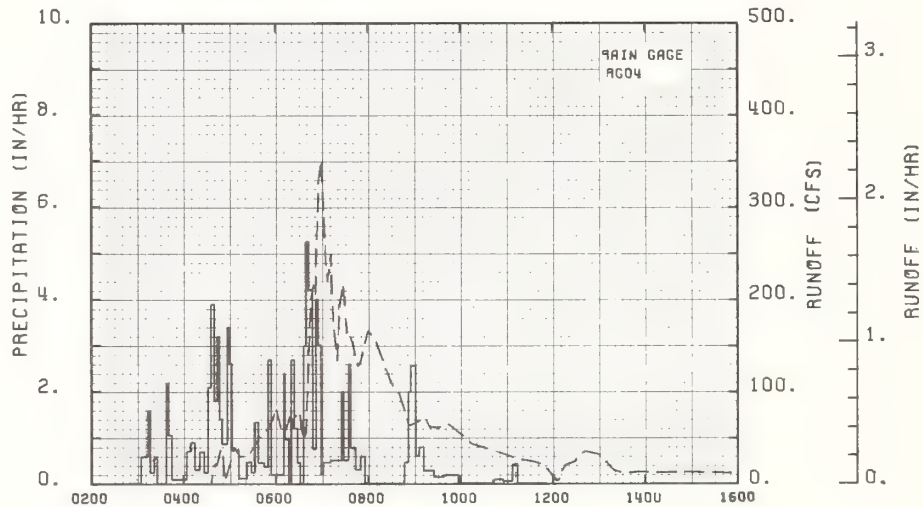
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.154556. STA AV values are for 28 yr (1941-1968) record period.

1968 SELECTED RUNOFF EVENT			MCCREDIE, MISSOURI STATION RESERVOIR W-1								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 13, 1968											
RG 04			RG 04								
10-13	0.0	0.0	10-13	305	0.0	0.0	10-13	436	0.0	0.0	
				314	0.6000	0.09		440	20.490	0.0044	
				317	1.6000	0.17		444	21.480	0.0134	
				322	0.2401	0.19		448	37.570	0.0261	
				326	0.5999	0.23		451	33.140	0.0377	
WATERSHED CONDITIONS:											
40% Pasture and meadow,											
3-6 in. tall; 23% alfalfa,											
harvested; 31% row crops of											
corn and soybeans, harvested;											
6% roads and farmstead.											
				338	0.0	0.23		454	3.150	0.0437	
				341	2.2000	0.34		500	21.390	0.0518	
				345	1.0501	0.41		506	39.950	0.0712	
				404	0.0947	0.44		513	29.440	0.0976	
				409	0.7200	0.50		524	30.020	0.1330	
				415	0.9000	0.59		540	52.910	0.2044	
				421	0.3000	0.62		548	58.210	0.2522	
				427	0.7001	0.69		556	69.950	0.3074	
				432	0.2401	0.71		600	82.330	0.3421	
				436	2.1000	0.85		608	56.040	0.4017	
				440	3.8999	1.11		613	56.790	0.4317	
				444	1.7999	1.23		618	73.380	0.4663	
				447	3.2001	1.39		620	57.220	0.4812	
				450	1.4001	1.46		624	72.440	0.5091	
				457	0.8571	1.56		631	78.470	0.5664	
				500	3.4000	1.73		636	47.550	0.5999	
				503	2.6001	1.86		639	53.850	0.6166	
				512	0.7333	1.97		641	93.380	0.6315	
				523	0.1091	1.99		646	198.560	0.7128	
				528	0.4799	2.03		649	216.210	0.7811	
				533	0.2401	2.05		652	203.610	0.8449	
				537	1.3499	2.14		656	327.590	0.9592	
				545	0.4500	2.20		700	350.190	1.1137	
				550	0.3600	2.23		705	247.310	1.2726	
				554	2.7001	2.41		708	219.040	1.3494	
				610	0.1875	2.46		712	248.830	1.4501	
				612	2.4000	2.54		715	174.900	1.5198	
				617	0.9598	2.62		720	133.700	1.6018	
				620	0.0	2.62		724	198.630	1.6733	
				624	2.7001	2.80		728	216.960	1.7627	
				628	1.2000	2.88		731	177.980	1.8277	
				632	0.4500	2.91		734	157.060	1.8828	
				636	0.0	2.91		737	159.390	1.9309	
				639	2.9999	3.06		740	151.360	1.9820	
				643	5.2501	3.41		747	126.790	2.0876	
				648	4.1999	3.76		750	132.180	2.1302	
				652	0.7500	3.81		800	165.860	2.2924	
				655	3.9999	4.01		810	154.160	2.4626	
				659	3.0002	4.21		820	131.450	2.6181	
				702	0.1999	4.22		830	108.740	2.7489	
				711	0.4667	4.29		840	97.860	2.8588	
				725	0.5143	4.41		847	80.790	2.9267	
				728	1.9998	4.51		853	63.110	2.9741	
				734	0.5000	4.56		902	66.720	3.0366	
				737	2.6001	4.69		914	72.220	3.1263	
				744	0.7714	4.78		920	60.860	3.1701	
				750	0.3000	4.81		930	60.600	3.2362	
				756	0.6000	4.87		943	64.630	3.3234	
				847	0.0	4.87		1000	53.430	3.4325	
				852	0.4801	4.91		1015	42.550	3.5103	
				855	1.9998	5.01		1042	35.440	3.6238	
				902	2.5715	5.31		1100	30.450	3.6880	
				906	0.6001	5.35		1114	25.980	3.7302	
				912	0.8000	5.43		1135	23.580	3.7867	
				925	0.2769	5.49		1150	18.550	3.8208	
				938	0.1385	5.52		1205	2.860	3.8381	
				957	0.1895	5.58		1208	4.940	3.8394	
				1043	0.0	5.58		1216	20.850	3.8505	
				1055	0.1000	5.60		1228	24.620	3.8799	
				1107	0.0500	5.61		1240	34.760	3.9182	
				1114	0.4286	5.66		1300	31.200	3.9900	
				1150	0.0	5.66		1320	13.260	4.0378	
								1332	10.980	4.0535	
								1350	12.900	4.0768	
								1412	11.680	4.1060	
								1440	12.530	4.1425	
								1500	12.170	4.1694	
								1520	11.450	4.1948	
								1600	10.670	4.2427	
								1630	10.440	4.2769	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00644. Event precipitation totals for rain gages R-2, R-3, S-6, and R-8 are 6.14, 5.68, 5.88 and 5.94 respectively and the Thiessen average event precipitation is 5.90 inches.

1968 SELECTED RUNOFF EVENT			MCCREDIE, MISSOURI			STATION RESERVOIR W-1		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF OCTOBER 13, 1968 (CONTINUED)								
				10-13			1700	8.520
							1730	6.450
							1800	6.630
								4.3076
								4.3319
								4.3531

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00644. Event precipitation totals for rain gages R-2, R-3, S-6, and R-8 are 6.14, 5.68, 5.88 and 5.94 respectively and the Thiessen average event precipitation is 5.90 inches.



EVENT OF OCTOBER 13, 1968
MCCREDIE, MISSOURI STATION RESERVOIR W-1

COSHOCTON, OHIO WATERSHED 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO		WATERSHED 102					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.35	0.46	4.80	1.89	6.15	3.22	4.04	1.24	2.19	2.24	2.78	3.39	35.75			
	Q	0.357	0.169	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.541			
STA AV	P	1.82	2.31	4.22	3.32	4.01	4.62	3.97	3.18	2.35	2.33	2.41	2.27	36.81			
	Q	0.049	0.066	0.132	0.057	0.009	0.171	0.029	0.038	0.019	0.009	0.001	0.0	0.581			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours	Date	12 Hours	Date	1 Day	Date	Vol.		
									Vol.		Vol.		Vol.		Vol.		
1968		7-24	0.023	7-24	0.013	1-30	0.015	1-30	0.047	1-30	0.094	1-30	0.188	1-30	0.377	1-24	0.526
MAXIMUMS FOR PERIOD OF RECORD																	
		6-12	3.640	6-12	1.310	6-12	1.320	6-12	1.320	6-12	1.320	6-12	1.330	3- 4	1.500	3- 1	1.690
		1957		1957		1957		1957		1957		1957		1963		1963	

NOTES: Watershed conditions: Cover of improved practice alfalfa meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.1-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1957 to Apr. 30, 1957 and Sept. 1, 1957 to March 29, 1960. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 102	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.05	0.0	0.02	0.0	0.30	0.95	0.46	0.75	0.0	0.0	0.21			
2	0.0	0.07	0.0	0.0	0.0	0.10	0.0	0.0	0.05	0.31	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.25	0.13	0.0	0.0	0.05	0.47	0.07	0.08			
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.51			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0			
6	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.28	0.22	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.28	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.25	0.0	0.0	0.0	0.0			
9	0.04	0.20	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.08	0.12	0.21	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.18	1.22	0.0	0.0	0.10	0.0	0.05	0.0			
12	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0			
13	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.46	0.0	0.0	0.84	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.39	0.0	0.0	0.0	0.46	0.40	0.10	0.0	0.0	0.0	0.48	0.13			
16	0.0	0.0	0.30	0.0	0.22	0.25	0.30	0.0	0.0	0.0	0.39	0.0			
17	0.0	0.0	0.0	0.02	0.08	0.04	0.0	0.0	0.0	0.0	0.05	0.0			
18	0.0	0.0	0.0	0.0	0.28	0.0	0.11	0.0	0.08	0.93	0.09	0.18			
19	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.19	0.0	0.0	0.21			
20	0.0	0.14	0.26	0.09	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.68	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.79	0.0	0.0	0.24	0.20	0.0	0.0	0.04	0.0	0.37			
23	0.05	0.0	0.20	0.17	0.84	0.0	0.0	0.0	0.23	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.37	0.0	2.11	0.0	0.05	0.0	0.09	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.35	0.02	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.39	0.19	0.47	0.19	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.41	0.0	0.88	0.0	0.11	0.0	0.0	0.0	0.0	0.0			
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.91	0.67			
29	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.62		0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0		0.81		0.0										
TOTAL	3.35	0.46	4.80	1.89	6.15	3.22	4.04	1.24	2.19	2.24	2.78	3.39			
STA AV	1.82	2.31	4.22	3.32	4.01	4.62	3.97	3.18	2.35	2.33	2.41	2.27			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y101. STA AV based on 17-20 yr period.

COSHOCTON, OHIO WATERSHED 102												
MEAN DAILY DISCHARGE (cfs)												
1968	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day												
1	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.009		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.010		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0006	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.357	0.169	0.0	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0
STA AV	0.049	0.066	0.132	0.057	0.009	0.171	0.029	0.038	0.019	0.009	0.001	0.0

NOTES: To convert CPS to IN/DAY, multiply by 18.8902. STA AV based on 17-20 yr period.

COSHOCTON, OHIO WATERSHED 129

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 2.71 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO		WATERSHED 129					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.62	0.47	4.94	1.64	6.41	3.08	3.94	1.17	2.17	2.20	2.81	3.52	35.97			
	Q	1.016	0.0	0.0	0.0	0.013	0.0	0.065	0.0	0.0	0.0	0.0	0.042	1.136			
STA AV	P	2.73	2.42	3.56	3.39	3.86	4.04	4.13	2.93	2.57	2.08	2.46	2.21	36.40			
	Q	0.082	0.116	0.174	0.048	0.049	0.145	0.060	0.039	0.039	0.010	0.001	0.011	0.774			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days	
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		7-24	0.212	1-29	0.068	1-29	0.118	1-29	0.241	1-29	0.344	1-29	0.612	1-28	0.965	1-22	1.015
MAXIMUMS FOR PERIOD OF RECORD																	
		6-12	2.360	6-12	0.980	9- 1	1.010	3- 4	1.530	3- 4	2.420	3- 4	2.900	3- 3	3.510	3- 3	4.000
		1957		1957		1950		1963		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of improved practice pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.3-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.3-1 and 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April, 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 129	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.03	0.0	0.42	0.90	0.48	0.72	0.0	0.0	0.26		
2	0.0	0.16	0.0	0.0	0.0	0.03	0.0	0.0	0.06	0.31	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.21	0.09	0.0	0.0	0.04	0.41	0.05	0.11		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.53		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.27	0.23	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.24	0.0	0.0	0.0	0.0		
9	0.04	0.11	0.08	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.06	0.10	0.17	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.32	1.16	0.0	0.0	0.10	0.0	0.07	0.0		
12	0.0	0.05	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.73	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.43	0.36	0.13	0.0	0.0	0.0	0.43	0.15		
16	0.0	0.0	0.30	0.0	0.22	0.26	0.23	0.0	0.0	0.0	0.42	0.0		
17	0.0	0.0	0.0	0.03	0.10	0.05	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.25	0.0	0.09	0.0	0.10	0.97	0.10	0.18		
19	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.21	0.0	0.0	0.22		
20	0.0	0.10	0.23	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.70	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.25	0.15	0.0	0.0	0.05	0.0	0.45		
23	0.05	0.0	0.18	0.13	0.88	0.0	0.0	0.0	0.26	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.37	0.0	2.14	0.0	0.03	0.0	0.09	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.03	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.40	0.15	0.53	0.16	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	1.07	0.0	0.18	0.0	0.0	0.0	0.0	0.97		
28	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.65		
29	0.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.61	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.62	0.47	4.94	1.64	6.41	3.08	3.94	1.17	2.17	2.20	2.81	3.52		
STA AV	2.73	2.42	3.56	3.39	3.86	4.04	4.13	2.93	2.57	2.08	2.46	2.21		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 100. STA AV based on 30-31 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 129												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005
29	0.057	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.030		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0037	0.0	0.0	0.0	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0002
INCHES	1.016	0.0	0.0	0.0	0.013	0.0	0.065	0.0	0.0	0.0	0.0	0.042
STA AV	0.082	0.116	0.174	0.048	0.049	0.185	0.060	0.039	0.039	0.010	0.001	0.011

NOTES: To convert CFS to IN/DAY, multiply by 8.7829. STA AV based on 30-31 yr period.

AREA: 2.69 acres

NOTES: Watershed conditions: Cover of unimproved pasture. For map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.4-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.4-1 and 26.30-3. Precipitation data from rain gage 100. Precipitation and runoff records began April, 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 100. STA AV based on 30-31 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 135												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.005		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0004	0.0	0.0	0.0	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0
INCHES	0.110	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0
STA AV	0.042	0.126	0.116	0.029	0.019	0.106	0.041	0.039	0.039	0.039	0.001	0.010

NOTES: To convert CFS to IN/DAY, multiply by 8.8482. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 130

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.63 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 130	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93	
Q	0.342	0.0	0.040	0.0	0.057	0.0	0.019	0.0	0.0	0.0	0.0	0.159	0.616	
STA AV P	2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17	35.70	
Q	0.108	0.135	0.195	0.087	0.031	0.174	0.059	0.019	0.048	0.001	0.001	0.015	0.873	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge			Maximum Volume for Selected Time Interval											
Date	Date	1 Hour	Date	2 Hours	Date	6 Hours	Date	12 Hours	Date	1 Day	Date	2 Days	Date	8 Days
Date	Rate	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.
1968	7-24	0.085	1-30	0.046	1-30	0.080	1-30	0.145	1-29	0.196	1-29	0.300	1-28	0.342
MAXIMUMS FOR PERIOD OF RECORD														
	6-12	4.060	6-12	1.420	6-12	1.440	3- 4	1.550	3- 4	2.160	3- 4	2.540	3- 4	3.140
	1957		1957		1957		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of improved practice meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.5-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.5-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began May, 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 130	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24		
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10		
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0		
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07		
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0		
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15		
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24		
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43		
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95		
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67		
29	0.20	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.60	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34		
STA AV	2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 130												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.004
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
29	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.014		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0008	0.0	0.0001	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0004
INCHES	0.342	0.0	0.040	0.0	0.057	0.0	0.019	0.0	0.0	0.0	0.0	0.159
STA AV	0.108	0.135	0.195	0.087	0.031	0.174	0.059	0.019	0.048	0.001	0.001	0.015

NOTES: To convert CFS to IN/DAY, multiply by 14.6022. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 131

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 2.21 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 131									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93			
	Q	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003			
STA AV	P	2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17	35.70			
	Q	0.029	0.019	0.039	0.019	0.010	0.029	0.001	0.001	0.010	0.001	0.001	0.001	0.160			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days	
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1-30	0.002	1-30	0.001	1-30	0.002	1-30	0.002	1-30	0.002	1-29	0.002	1-28	0.002	1-22	0.002
MAXIMUMS FOR PERIOD OF RECORD																	
		6-12	1.180	6-12	0.410	6-12	0.450	6-12	0.450	6-12	0.450	6-12	0.450	6-12	0.450	6-12	0.450
		1957		1957		1957		1957		1957		1957		1957		1957	

NOTES: Watershed conditions: Cover of uneven age hardwoods. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.7-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.7-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began May, 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 131	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24		
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10		
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0		
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07		
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0		
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15		
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24		
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43		
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95		
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67		
29	0.20	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.60	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34		
STA AV	2.68	2.31	3.40	3.28	3.80	3.97	4.19	2.82	2.58	2.08	2.43	2.17		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 30-31 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 131												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.029	0.019	0.039	0.019	0.010	0.029	0.001	0.001	0.010	0.001	0.001	0.001

NOTES: To convert CFS to IN/DAY, multiply 10.7700. STA AV based on 30-31 yr period.

COSHOCKTON, OHIO WATERSHED 132

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 0.59 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCKTON, OHIO WATERSHED 132	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93	
	Q	1.333	0.273	1.733	0.462	1.967	0.0	0.0	0.0	0.0	0.0	0.0	0.297	6.066	
STA AV	P	3.18	2.44	3.32	3.37	3.34	3.41	4.36	2.47	2.61	1.87	2.55	2.30	35.23	
	Q	0.285	0.232	0.581	0.375	0.208	0.133	0.001	0.001	0.010	0.001	0.0	0.024	1.850	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		5-27	0.095	5-27	0.093	5-27	0.183	5-27	0.479	5-27	0.688	1-29	0.899	1-28	1.228
														1-26	1.605
MAXIMUMS FOR PERIOD OF RECORD															
		6-12	2.000	4-25	0.730	4-25	0.990	4-25	1.370	3- 9	1.670	3- 9	2.370	3- 9	2.780
		1957		1961		1961		1961		1964		1964		1964	1964

NOTES: Watershed conditions: Cover of uneven age hardwoods. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 26.8-2. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.8-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began May, 1988. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCKTON, OHIO WATERSHED 132	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24			
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10			
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0			
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0			
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0			
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07			
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0			
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0			
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15			
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24			
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43			
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0			
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95			
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67			
29	0.20	0.0	0.07	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0			
30	0.60	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34			
STA AV	3.18	2.44	3.32	3.37	3.34	3.41	4.36	2.47	2.61	1.87	2.55	2.30			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 20-21 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 132												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.002	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.001E	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.004E	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.015E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.005E	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.001E	0.0	0.010E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.009	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.001	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.007
29	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0011	0.0002	0.0014	0.0004	0.0016	0.0	0.0	0.0	0.0	0.0	0.0	0.0002
INCHES	1.333	0.273	1.733	0.462	1.967	0.0	0.0	0.0	0.0	0.0	0.0	0.297
STA AV	0.285	0.232	0.581	0.375	0.208	0.133	0.001	0.001	0.010	0.001	0.0	0.024

NOTES: To convert CFS to IN/DAY, multiply by 40.3418. STA AV based on 20-21 yr period.

COSHOCTON, OHIO WATERSHED 123

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.37 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 123							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42	36.17			
	Q	0.556	0.013	0.579	0.002	0.355	0.022	0.0	0.0	0.0	0.0	0.0	0.253	1.781			
STA AV	P	2.78	2.46	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34	37.24			
	Q	0.376	0.339	0.454	0.251	0.128	0.291	0.116	0.077	0.048	0.019	0.010	0.124	2.234			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968		5-27	0.133	5-27	0.106	5-27	0.188	5-27	0.314	1-30	0.392	1-29	0.470	1-28	0.518	1-25	0.569
MAXIMUMS FOR PERIOD OF RECORD																	
		6-12 1957	5.970	6-12 1957	1.370	6-12 1957	1.480	6-28 1957	1.510	1-21 1959	1.840	1-21 1959	2.330	1-21 1959	2.330	3-4 1964	2.660

NOTES: Watershed conditions: Second year meadow cover, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.10-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 123	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.07	0.0	0.03	0.0	0.40	0.91	0.49	0.67	0.0	0.0	0.25			
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.32	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.25	0.12	0.0	0.0	0.04	0.41	0.06	0.08			
4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.54			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0			
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.30	0.22	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.24	0.0	0.0	0.0	0.0			
9	0.05	0.10	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.08	0.09	0.23	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.35	1.27	0.0	0.0	0.10	0.0	0.05	0.0			
12	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0			
13	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.32	0.0	0.0	0.73	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.70	0.0	0.0	0.0	0.43	0.30	0.15	0.0	0.0	0.0	0.44	0.10			
16	0.0	0.0	0.30	0.0	0.18	0.22	0.35	0.0	0.0	0.0	0.41	0.0			
17	0.0	0.0	0.0	0.02	0.09	0.03	0.0	0.0	0.0	0.0	0.08	0.0			
18	0.0	0.0	0.0	0.0	0.22	0.0	0.09	0.0	0.10	1.01	0.06	0.18			
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.23	0.0	0.0	0.21			
20	0.0	0.12	0.25	0.10	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.74	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.77	0.0	0.0	0.25	0.14	0.0	0.0	0.04	0.0	0.45			
23	0.05	0.0	0.13	0.16	0.88	0.0	0.0	0.0	0.20	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.36	0.0	2.02	0.0	0.07	0.0	0.06	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.27	0.03	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.39	0.18	0.45	0.17	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.44	0.0	1.07	0.0	0.19	0.0	0.0	0.0	0.0	0.94			
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.67			
29	0.45	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.64	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL		3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42		
STA AV		2.78	2.46	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y103. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	T 0.0	0.0	T 0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	T 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.017E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.011	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015
29	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0010	0.0	0.0011	0.0	0.0007	0.0	0.0	0.0	0.0	0.0	0.0	0.0005
INCHES	0.556	0.013	0.579	0.002	0.355	0.022	0.0	0.0	0.0	0.0	0.0	0.253
STA AV	0.376	0.339	0.454	0.251	0.128	0.291	0.116	0.077	0.048	0.019	0.010	0.124

NOTES: To convert CFS to IN/DAY, multiply by 17.3735. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 115

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.61 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 115							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42	36.17			
	Q	0.035	0.005	0.218	0.021	0.317	0.0	0.039	0.0	0.0	0.0	0.0	0.279	0.913			
STA AV	P	2.82	2.40	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34	37.22			
	Q	0.214	0.242	0.230	0.136	0.156	0.377	0.282	0.155	0.116	0.029	0.019	0.058	2.012			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		7-24	0.072	12-28	0.061	12-28	0.102	12-28	0.186	12-27	0.201	12-27	0.278	12-27	0.278	5-19	0.301
MAXIMUMS FOR PERIOD OF RECORD																	
		6-12	4.120	9-1	1.330	9-1	1.560	9-1	1.580	9-1	1.590	9-1	1.590	3-3	1.660	6-29	2.850
		1957		1950		1950		1950		1950		1950		1963		1941	

NOTES: Watershed conditions: Cover of second year meadow, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.11-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.11-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 115												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	1	0.0	0.07	0.0	0.03	0.0	0.40	0.91	0.49	0.67	0.0	0.0	0.25												
	2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.32	0.0	0.0												
	3	0.0	0.0	0.0	0.0	0.25	0.12	0.0	0.0	0.04	0.41	0.06	0.08												
	4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.54												
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0												
	6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.30	0.22	0.0												
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.0												
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.24	0.0	0.0	0.0	0.0												
	9	0.05	0.10	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.08	0.09	0.23	0.0	0.0												
	11	0.0	0.0	0.0	0.0	1.35	1.27	0.0	0.0	0.10	0.0	0.05	0.0												
	12	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0												
	13	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	14	0.32	0.0	0.0	0.73	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	15	0.70	0.0	0.0	0.0	0.43	0.30	0.15	0.0	0.0	0.0	0.44	0.10												
	16	0.0	0.0	0.30	0.0	0.18	0.22	0.35	0.0	0.0	0.0	0.41	0.0												
	17	0.0	0.0	0.0	0.02	0.09	0.03	0.0	0.0	0.0	0.0	0.08	0.0												
	18	0.0	0.0	0.0	0.0	0.22	0.0	0.09	0.0	0.10	1.01	0.06	0.18												
	19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.23	0.0	0.0	0.21												
	20	0.0	0.12	0.25	0.10	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	21	0.0	0.0	0.74	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	22	0.0	0.0	0.77	0.0	0.0	0.25	0.14	0.0	0.0	0.04	0.0	0.45												
	23	0.05	0.0	0.13	0.16	0.88	0.0	0.0	0.0	0.20	0.0	0.0	0.0												
	24	0.0	0.0	0.0	0.0	0.36	0.0	2.02	0.0	0.07	0.0	0.06	0.0												
	25	0.0	0.0	0.0	0.0	0.0	0.27	0.03	0.0	0.0	0.0	0.0	0.0												
	26	0.0	0.0	0.39	0.18	0.45	0.17	0.0	0.0	0.0	0.0	0.0	0.0												
	27	0.0	0.0	0.44	0.0	1.07	0.0	0.19	0.0	0.0	0.0	0.0	0.94												
	28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.67												
	29	0.45	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	30	0.64	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	31	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL		3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42												
STA AV		2.82	2.40	3.52	3.51	3.87	4.22	4.26	2.92	2.60	2.21	2.56	2.34												

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y103. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 115													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0 T	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.002	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.004	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.006	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.002		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.003		0.0		0.0	0.0		0.0		0.0	0.0
MEAN	0.0001	0.0	0.0005	0.0	0.0007	0.0	0.0001	0.0	0.0	0.0	0.0	0.0006	
INCHES	0.035	0.005	0.218	0.021	0.317	0.0	0.039	0.0	0.0	0.0	0.0	0.279	
STA AV	0.214	0.242	0.230	0.136	0.156	0.377	0.282	0.155	0.116	0.029	0.019	0.058	

NOTES: To convert CFS to IN/DAY, multiply by 14.7836. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 127

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.65 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 127													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42	36.17													
	Q	1.170	0.062	1.214	0.056	0.659	0.013	0.044	0.0	0.0	0.0	0.0	0.530	3.749													
STA AV	P	3.20	2.60	3.49	3.68	3.47	3.56	4.43	2.76	2.62	1.93	2.66	2.46	36.87													
	Q	0.782	0.704	0.651	0.344	0.118	0.257	0.107	0.066	0.076	0.019	0.038	0.283	3.446													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date																		
1968		3-27	0.168	5-27	0.107	5-27	0.176	1-30	0.362	1-30	0.632	1-29	0.901	1-28	1.126	1-25	1.231										
MAXIMUMS FOR PERIOD OF RECORD																											
		6-12	3.120	9-1	1.330	9-1	1.480	6-12	1.490	1-26	1.970	1-26	2.650	1-25	2.820	1-25	2.850										
		1957		1950		1950		1957		1952		1952		1952		1952											

NOTES: Watershed conditions: Cover of second year meadow, improved practice plus plow-plant for corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.12-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.12-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began May 1949. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968		DAILY PRECIPITATION (inches)						COSHOCTON, OHIO WATERSHED 127						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.07	0.0	0.03	0.0	0.0	0.40	0.91	0.49	0.67	0.0	0.0	0.25	
2	0.0	0.13	0.0	0.0	0.0	0.25	0.05	0.0	0.0	0.03	0.32	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.04	0.41	0.06	0.08	
4	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.54	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.30	0.22	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.24	0.0	0.0	0.0	0.0	
9	0.05	0.10	0.05	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.08	0.09	0.23	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	1.35	1.27	0.0	0.0	0.10	0.0	0.05	0.0	
12	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	
13	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.32	0.0	0.0	0.0	0.73	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.70	0.0	0.0	0.0	0.0	0.43	0.30	0.15	0.0	0.0	0.0	0.44	0.10	
16	0.0	0.0	0.30	0.0	0.18	0.22	0.35	0.0	0.0	0.0	0.0	0.41	0.0	
17	0.0	0.0	0.0	0.0	0.02	0.09	0.03	0.0	0.0	0.0	0.0	0.08	0.0	
18	0.0	0.0	0.0	0.0	0.22	0.0	0.09	0.0	0.0	0.10	1.01	0.06	0.18	
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.21	
20	0.0	0.12	0.25	0.10	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.74	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.77	0.0	0.0	0.25	0.14	0.0	0.0	0.0	0.04	0.0	0.45	
23	0.05	0.0	0.13	0.16	0.88	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.36	0.0	2.02	0.0	0.0	0.07	0.0	0.06	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.03	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.39	0.18	0.45	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.44	0.0	1.07	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.94	
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.67	
29	0.45	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.64	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		3.83	0.42	4.86	1.78	6.45	3.08	4.01	1.20	2.09	2.31	2.72	3.42	
STA AV		3.20	2.60	3.49	3.68	3.47	3.56	4.43	2.76	2.62	1.93	2.66	2.46	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y103. STA AV based on 19-20 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 127												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.001	0.0	0.003	0.0	0.0 T	0.002	0.0	0.0	0.0	0.0	0.0
2	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.004E	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.003E	0.0	0.010	0.0	0.001	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.018	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.011
28	0.003	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.026E
29	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.055		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.009		0.0		0.0	0.0		0.0		0.0
MEAN	0.0026	0.0001	0.0027	0.0001	0.0015	0.0	0.0001	0.0	0.0	0.0	0.0	0.0012
INCHES	1.170	0.062	1.214	0.056	0.659	0.013	0.044	0.0	0.0	0.0	0.0	0.530
STA AV	0.782	0.704	0.651	0.344	0.118	0.257	0.107	0.066	0.076	0.019	0.038	0.283

NOTES: To convert CFS to IN/DAY, multiply by 14.4253. STA AV based on 19-20 yr period.

COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 109									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	3.94	0.30	4.46	1.84	6.18	3.00	4.15	1.16	2.10	2.20	2.62	3.28	35.23					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
STA AV	P	2.67	2.33	3.45	3.47	3.88	4.20	4.33	2.87	2.62	2.16	2.46	2.22	36.67					
	Q	0.068	0.155	0.135	0.048	0.106	0.271	0.213	0.155	0.048	0.010	0.001	0.019	1.229					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0
MAXIMUMS FOR PERIOD OF RECORD																			
		5-17	4.340	6-29	0.820	6-28	1.090	3- 4	1.350	3- 4	1.920	3- 4	2.170	3- 3	2.550	3- 1	2.660		
		1941		1941		1940		1963		1963		1963		1963		1963			

NOTES: Watershed conditions: Cover of second year meadow, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage Y102. Precipitation and runoff records began Nov. 1938. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 109	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.01	0.0	0.40	0.98	0.45	0.68	0.0	0.0	0.23		
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.32	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.23	0.06	0.0	0.0	0.05	0.43	0.06	0.10		
4	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0		
6	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.26	0.25	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.25	0.0	0.0	0.0	0.0		
9	0.05	0.10	0.05	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.10	0.08	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.25	1.21	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0		
13	1.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.31	0.0	0.0	0.77	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.86	0.0	0.0	0.0	0.47	0.33	0.10	0.0	0.0	0.0	0.46	0.06		
16	0.0	0.0	0.35	0.0	0.19	0.22	0.21	0.0	0.0	0.0	0.49	0.0		
17	0.0	0.0	0.0	0.02	0.09	0.04	0.0	0.0	0.0	0.0	0.02	0.0		
18	0.0	0.0	0.0	0.0	0.26	0.0	0.09	0.0	0.10	0.93	0.03	0.18		
19	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.20	0.0	0.0	0.22		
20	0.0	0.04	0.20	0.07	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.67	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.68	0.0	0.0	0.21	0.12	0.0	0.0	0.05	0.0	0.43		
23	0.05	0.0	0.20	0.19	0.83	0.0	0.0	0.0	0.27	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.33	0.0	2.29	0.0	0.06	0.0	0.05	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.03	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.40	0.19	0.47	0.18	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.40	0.0	0.95	0.0	0.22	0.0	0.0	0.0	0.0	0.96		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.60		
29	0.23	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.62	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.94	0.30	4.46	1.84	6.18	3.00	4.15	1.16	2.10	2.20	2.62	3.28		
STA AV	2.67	2.33	3.45	3.47	3.88	4.20	4.33	2.87	2.62	2.16	2.46	2.22		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage Y102. STA AV based on 30-31 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 109												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.068	0.155	0.135	0.048	0.106	0.271	0.213	0.155	0.048	0.010	0.001	0.019

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV based on 30-31 yr period.

COSHOCTON, OHIO WATERSHED 103

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 0.65 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 103									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	34.31			
	Q	0.289	0.142	0.805	0.031	0.531	0.0	0.004	0.0	0.0	0.0	0.0	0.160	1.962			
STA AV	P	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17	35.32			
	Q	0.319	0.362	0.617	0.281	0.153	0.367	0.251	0.126	0.135	0.029	0.029	0.092	2.762			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968		5-27	0.107	5-27	0.078	5-27	0.143	5-27	0.270	5-27	0.343	5-26	0.431	3-21	0.461	3-19	0.680
MAXIMUMS FOR PERIOD OF RECORD																	
		7-23	4.720	9-1	1.950	9-1	2.600	9-1	2.620	3-4	2.820	3-4	3.070	3-3	3.500	3-1	4.150
		1940		1950		1950		1950		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of first year meadow, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.14-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.14-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													
COSHOCTON, OHIO WATERSHED 103													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.23	
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.11	
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.48	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0	
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0	
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.35	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.38	0.12	
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0	
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0	
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.16	
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.21	
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.40	
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.0	0.33	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0	
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.93	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.62	
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.79	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.76			0.0		0.0	0.0		0.0		0.0	
TOTAL	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	
STA AV	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 103												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.002	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0 E	0.0	0.002	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.005	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.004
29	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.005E		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0003	0.0001	0.0007	0.0	0.0005	0.0	0.0	0.0	0.0	0.0	0.0	0.0001
INCHES	0.289	0.142	0.805	0.031	0.531	0.0	0.004	0.0	0.0	0.0	0.0	0.160
STA AV	0.319	0.362	0.617	0.281	0.153	0.367	0.251	0.126	0.135	0.029	0.029	0.092

NOTES: To convert CPS to IN/DAY, multiply by 36.6179. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 110

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.27 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 110	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	34.31	
	Q	0.200	0.0	0.016	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.056	0.336	
STA AV	P	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17	35.32	
	Q	0.219	0.232	0.377	0.145	0.118	0.338	0.251	0.106	0.135	0.029	0.019	0.089	2.060	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1-30	0.036	1-30	0.032	1-30	0.059	1-30	0.116	1-30	0.169	1-29	0.198	1-29	0.200
MAXIMUMS FOR PERIOD OF RECORD															
		7-28	4.440	9-1	2.240	9-1	3.160	9-1	3.190	9-1	3.190	9-1	3.200	3-3	4.120
		1950		1950		1950		1950		1950		1950		1963	5.050

NOTES: Watershed conditions: Cover of first year meadow, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.14-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.15-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 110	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.23			
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.11			
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.48			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0			
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0			
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0			
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.38	0.12			
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0			
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0			
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.16			
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.21			
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.40			
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.0	0.33	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0			
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.93			
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.62			
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.79	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0		0.76		0.0		0.0	0.0		0.0		0.0			
TOTAL	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26			
STA AV	2.65	2.21	3.33	3.30	3.67	3.99	4.14	2.80	2.60	2.07	2.39	2.17			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 110												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.001	0.0	0.003E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0003	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0001
INCHES	0.200	0.0	0.016	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.056
STA AV	0.219	0.232	0.377	0.145	0.118	0.338	0.251	0.106	0.135	0.029	0.019	0.089

NOTES: To convert CPS to IN/DAY, multiply by 18.7415. STA AV based on 29-30 yr period.

COSHOCKTON, OHIO WATERSHED 113

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.45 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCKTON, OHIO WATERSHED 113	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50	35.36	
	Q	0.1073	0.010	0.352	0.0	0.149	0.0	0.0	0.0	0.0	0.0	0.0	0.066	1.650	
STA AV	P	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26	36.18	
	Q	0.249	0.377	0.311	0.145	0.121	0.338	0.154	0.164	0.077	0.039	0.019	0.060	2.056	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1-30	0.080	1-30	0.072	1-30	0.127	1-29	0.281	1-29	0.397	1-29	0.690	1-28	1.022
														1-25	1.082
MAXIMUMS FOR PERIOD OF RECORD															
		6-12	3.770	9-1	1.030	4-25	1.200	6-28	1.350	3-4	1.500	3-4	1.700	3-3	2.000
		1957		1950		1961		1957		1963		1963		1963	
															2.690

NOTES: Watershed conditions: Cover of wheat to meadow, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.16-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.16-1 and 26.30-3. Precipitation data from rain gage 109. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCKTON, OHIO WATERSHED 113	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.03	0.0	0.03	0.0	0.38	0.86	0.51	0.65	0.0	0.0	0.23			
2	0.0	0.08	0.0	0.0	0.0	0.09	0.0	0.0	0.03	0.45	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.17	0.07	0.0	0.06	0.0	0.43	0.05	0.09			
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.51			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0			
6	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.30	0.25	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.20	0.0			
8	0.0	0.0	0.10	0.0	0.0	0.0	0.17	0.30	0.0	0.0	0.03	0.0			
9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.07	0.10	0.21	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.31	1.10	0.0	0.0	0.11	0.0	0.05	0.0			
12	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.70	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.47	0.19	0.05	0.0	0.0	0.0	0.45	0.10			
16	0.0	0.0	0.30	0.0	0.25	0.19	0.10	0.0	0.0	0.0	0.38	0.0			
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0			
18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.09	0.95	0.16	0.15			
19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.25	0.0	0.0	0.24			
20	0.0	0.05	0.22	0.08	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.73	0.0	0.0	0.35	0.03	0.0	0.0	0.05	0.0	0.43			
23	0.05	0.0	0.05	0.19	0.83	0.0	0.0	0.0	0.28	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.39	0.0	2.52	0.0	0.10	0.0	0.09	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.35	0.16	0.37	0.18	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.40	0.0	0.99	0.0	0.31	0.0	0.0	0.0	0.0	1.07			
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.68			
29	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0			
30	0.56	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50			
STA AV	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 109. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 113												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.004	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
29	0.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0021	0.0	0.0007	0.0	0.0003	0.0	0.0	0.0	0.0	0.0	0.0	0.0001
INCHES	1.073	0.010	0.352	0.0	0.149	0.0	0.0	0.0	0.0	0.0	0.0	0.066
STA AV	0.249	0.377	0.311	0.145	0.121	0.338	0.154	0.164	0.077	0.039	0.019	0.060

NOTES: To convert CFS to IN/DAY, multiply by 16.4149. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 118

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.96 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 118					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.59	0.34	4.45	1.71	6.33	2.74	4.29	1.25	2.22	2.42	2.82	3.49	35.65	
	Q	0.687	0.256	0.210	0.005	0.484	0.015	0.002	0.0	0.0	0.0	0.0	0.301	1.960	
STA AV	P	2.80	2.38	3.51	3.40	3.84	4.05	4.13	2.89	2.78	2.09	2.58	2.32	36.77	
	Q	0.284	0.347	0.519	0.213	0.123	0.377	0.155	0.222	0.126	0.010	0.039	0.088	2.501	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		5-27	0.062	12-28	0.054	5-27	0.104	5-27	0.195	1-30	0.298	1-29	0.419	1-29	0.567

NOTES: Watershed conditions: Cover of wheat to meadow, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.17-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.17-1 and 26.30-3. Precipitation data from rain gage 108. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 118	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.03	0.0	0.03	0.0	0.40	0.84	0.55	0.58	0.0	0.0	0.0	0.24		
2	0.0	0.12	0.0	0.0	0.0	0.05	0.0	0.0	0.02	0.40	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.19	0.09	0.0	0.06	0.46	0.06	0.06	0.09		
4	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.49		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.31	0.22	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.23	0.0	0.0		
8	0.0	0.0	0.06	0.0	0.0	0.0	0.24	0.25	0.0	0.0	0.0	0.0	0.0		
9	0.04	0.10	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.08	0.10	0.21	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	1.31	1.04	0.0	0.0	0.12	0.0	0.05	0.0		
12	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.0	0.71	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.0	0.52	0.15	0.05	0.0	0.0	0.0	0.44	0.09		
16	0.0	0.0	0.30	0.0	0.0	0.24	0.21	0.12	0.0	0.0	0.0	0.40	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.06	0.02	0.0	0.0	0.0	0.05	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.10	0.96	0.13	0.20	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.24	0.0	0.0	0.20		
20	0.0	0.09	0.20	0.05	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.67	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.83	0.0	0.0	0.30	0.03	0.0	0.0	0.05	0.0	0.0	0.41		
23	0.07	0.0	0.06	0.20	0.83	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.43	0.0	2.53	0.0	0.10	0.0	0.07	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.03	0.0	0.0	0.0		
26	0.0	0.0	0.40	0.16	0.36	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.36	0.0	1.07	0.0	0.40	0.0	0.0	0.0	0.0	0.0	1.07		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.70	0.0		
29	0.22	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
30	0.61	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		3.59	0.34	4.45	1.71	6.33	2.74	4.29	1.25	2.22	2.42	2.82	3.49		
STA AV		2.80	2.38	3.51	3.40	3.84	4.05	4.13	2.89	2.78	2.09	2.58	2.32		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 108. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 118												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.010	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.010	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.006	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.001	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.004	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.008
28	0.002	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.017
29	0.008	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.012	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0018	0.0007	0.0006	0.0	0.0013	0.0	0.0	0.0	0.0	0.0	0.0	0.0008
INCHES	0.687	0.256	0.210	0.005	0.484	0.015	0.002	0.0	0.0	0.0	0.0	0.301
STA AV	0.284	0.347	0.519	0.213	0.123	0.377	0.155	0.222	0.126	0.010	0.039	0.088

NOTES: To convert CFS to IN/DAY, multiply by 12.1437. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 111

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.18 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 111	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50	35.36	
	Q	0.679	0.316	1.635	0.031	1.262	0.0	0.009	0.0	0.0	0.0	0.0	0.382	4.314	
STA AV	P	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26	36.18	
	Q	0.497	0.552	0.665	0.291	0.188	0.309	0.087	0.048	0.077	0.019	0.029	0.216	2.978	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		5-27	0.164	5-27	0.142	5-27	0.247	5-27	0.450	5-27	0.558	5-26	0.666	3-21	0.725
														1-19	1.232
MAXIMUMS FOR PERIOD OF RECORD															
		6-12	3.830	6-12	1.330	6-12	1.420	6-28	1.710	1-21	2.030	1-26	2.600	1-25	2.610
		1957		1957		1957		1957		1959		1952		1952	1952

NOTES: Watershed conditions: Cover of wheat to meadow, improved practice plus mulch tillage. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.18-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.18-1 and 26.30-3. Precipitation data from rain gage 109. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 111	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.03	0.0	0.03	0.0	0.38	0.86	0.51	0.65	0.0	0.0	0.23			
2	0.0	0.08	0.0	0.0	0.0	0.09	0.0	0.0	0.03	0.45	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.17	0.07	0.0	0.0	0.06	0.43	0.05	0.09			
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.51			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0			
6	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.30	0.25	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.20	0.0			
8	0.0	0.0	0.10	0.0	0.0	0.0	0.17	0.30	0.0	0.0	0.03	0.0			
9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.07	0.10	0.21	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.31	1.10	0.0	0.0	0.11	0.0	0.05	0.0			
12	0.0	0.0	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.70	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.47	0.19	0.05	0.0	0.0	0.0	0.45	0.10			
16	0.0	0.0	0.30	0.0	0.25	0.19	0.10	0.0	0.0	0.0	0.38	0.0			
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0			
18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.09	0.95	0.16	0.15			
19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.25	0.0	0.0	0.24			
20	0.0	0.05	0.22	0.08	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.73	0.0	0.0	0.35	0.03	0.0	0.0	0.05	0.0	0.43			
23	0.05	0.0	0.05	0.19	0.83	0.0	0.0	0.0	0.28	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.39	0.0	2.52	0.0	0.10	0.0	0.09	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.35	0.16	0.37	0.18	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.40	0.0	0.99	0.0	0.31	0.0	0.0	0.0	0.0	1.07			
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.68			
29	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0			
30	0.56	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0		0.67		0.0		0.0	0.0		0.0		0.0			
TOTAL	3.60	0.25	4.29	1.73	6.25	2.92	4.10	1.27	2.19	2.39	2.87	3.50			
STA AV	2.70	2.30	3.40	3.32	3.87	4.11	4.05	2.87	2.67	2.15	2.46	2.26			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 109. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 111												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.006	0.0	0.002	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
2	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.019	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.008E	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.014	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.015	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.001
28	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.018
29	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.018		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.001		0.003		0.0		0.0	0.0		0.0		0.0
MEAN	0.0011	0.0005	0.0026	0.0001	0.0020	0.0	0.0	0.0	0.0	0.0	0.0	0.0006
INCHES	0.679	0.316	1.635	0.031	1.262	0.0	0.009	0.0	0.0	0.0	0.0	0.382
STA AV	0.497	0.552	0.665	0.291	0.188	0.309	0.087	0.048	0.077	0.019	0.029	0.216

NOTES: To convert CFS to IN/DAY, multiply by 20.1709. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 121

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.42 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 121											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	33.82											
	O	0.253	0.067	0.385	0.035	0.297	0.068	0.003	0.0	0.0	0.0	0.0	0.097	1.206											
STA AV	P	2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15	35.39											
	O	0.183	0.195	0.332	0.165	0.068	0.225	0.184	0.126	0.077	0.019	0.010	0.032	1.616											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	Maximum Volume for Selected Time Interval Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.															
1968		3-31 0.051	1-29 0.044	1-29 0.072	1-29 0.106	5-27 0.124	1-29 0.210	1-28 0.239	5-26 0.365																
MAXIMUMS FOR PERIOD OF RECORD																									
		8-23 1944 7.820	9-1 1950 1.320	9-1 1950 1.390	9-1 1950 1.390	9-1 1950 1.390	9-1 1950 1.390	9-1 1950 1.390	3-3 1963 1.660	3-1 1963 1.870															

NOTES: Watershed conditions: Cover of meadow to corn to wheat, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.19-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968		DAILY PRECIPITATION (inches)						COSHOCTON, OHIO WATERSHED 121						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.02	0.0	0.02	0.0	0.35	0.90	0.54	0.64	0.0	0.0	0.21	
	2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.31	0.0	0.0	
	3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.06	0.54	0.05	0.08	
	4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.50	
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	
	6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30	0.20	0.0	
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.22	0.0	
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.24	0.0	0.0	0.03	0.0	
	9	0.04	0.09	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.19	0.10	0.21	0.0	0.0	
	11	0.0	0.0	0.0	0.0	1.20	0.94	0.0	0.0	0.10	0.0	0.03	0.0	
	12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
	13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	14	0.36	0.0	0.0	0.80	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	15	0.64	0.0	0.0	0.0	0.55	0.20	0.05	0.0	0.0	0.0	0.40	0.08	
	16	0.0	0.0	0.31	0.0	0.15	0.19	0.05	0.0	0.0	0.0	0.34	0.0	
	17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0	
	18	0.0	0.0	0.0	0.0	0.20	0.0	0.10	0.0	0.10	0.95	0.12	0.15	
	19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.19	0.02	0.03	0.22	
	20	0.0	0.04	0.20	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.65	0.0	0.0	0.25	0.05	0.0	0.0	0.05	0.0	0.40	
	23	0.05	0.0	0.15	0.19	0.73	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.36	0.0	2.33	0.0	0.10	0.0	0.07	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.35	0.15	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
	27	0.0	0.0	0.24	0.0	1.57	0.0	0.39	0.0	0.0	0.0	0.0	0.97	
	28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.66		
	29	0.21	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.57		0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	31	0.0		0.69		0.0		0.0	0.0		0.0		0.0	
TOTAL		3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	
STA AV		2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 113. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 121												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0 T	0.0	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.003E	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.003	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.002	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.006E
29	0.007	0.0	0.0 T	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.006		0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0 T		0.004		0.0 T		0.0	0.0		0.0		0.0
MEAN	0.0005	0.0001	0.0007	0.0001	0.0006	0.0001	0.0	0.0	0.0	0.0	0.0	0.0002
INCHES	0.253	0.067	0.385	0.035	0.297	0.068	0.003	0.0	0.0	0.0	0.0	0.097
STA AV	0.183	0.195	0.332	0.165	0.068	0.225	0.184	0.126	0.077	0.019	0.010	0.032

NOTES: To convert CFS to IN/DAY, multiply by 16.7617. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 106

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 1.56 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 106							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	33.82			
	Q	0.008	0.0	0.042	0.0	0.794	0.087	0.375	0.007	0.009	0.006	0.019	0.140	1.489			
STA AV	P	2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15	35.39			
	Q	0.222	0.232	0.194	0.126	0.123	0.303	0.293	0.213	0.165	0.020	0.030	0.082	2.001			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours Vol.	Date	12 Hours Vol.	Date	1 Day Vol.	Date	2 Days Vol.	8 Days Vol.	
1968		5-15	4.437	7-24	0.342	7-24	0.346	7-24	0.358	5-15	0.398	5-15	0.400	5-15	0.401	5-15	0.495
MAXIMUMS FOR PERIOD OF RECORD																	
		8-23	7.630	9-1	1.260	9-1	1.380	9-1	1.390	2-23	1.410	2-23	1.410	2-23	2.000	2-19	2.440
		1964		1950		1950		1950		1960		1962		1962		1962	

NOTES: Watershed conditions: Cover of meadow to corn to wheat, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.20-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.20-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation and runoff records began Apr. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)						COSHOCTON, OHIO WATERSHED 106							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02	0.0	0.02	0.0	0.35	0.90	0.54	0.64	0.0	0.0	0.21		
2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.31	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.06	0.54	0.05	0.08		
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0		
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.22	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.24	0.0	0.0	0.03	0.0		
9	0.04	0.09	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.19	0.10	0.21	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.20	0.94	0.0	0.0	0.10	0.0	0.03	0.0		
12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.80	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.55	0.20	0.05	0.0	0.0	0.0	0.40	0.08		
16	0.0	0.0	0.31	0.0	0.15	0.19	0.05	0.0	0.0	0.0	0.34	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.10	0.0	0.10	0.95	0.12	0.15		
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.19	0.02	0.03	0.22		
20	0.0	0.04	0.20	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.65	0.0	0.0	0.25	0.05	0.0	0.0	0.05	0.0	0.40		
23	0.05	0.0	0.15	0.19	0.73	0.0	0.0	0.0	0.20	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.33	0.0	0.10	0.0	0.07	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.35	0.15	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.24	0.0	1.57	0.0	0.39	0.0	0.0	0.0	0.0	0.97		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.66		
29	0.21	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.57		0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.69		0.0		0.0	0.0		0.0		0.0		
TOTAL	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27		
STA AV	2.66	2.16	3.24	3.22	3.71	4.05	4.30	2.82	2.64	2.08	2.36	2.15		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 113. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 106												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.001	0.0 T	0.0 T	0.001	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.021E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.005E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.003E	0.0	0.024E	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.013	0.0	0.001	0.0	0.0	0.0	0.0	0.001
28	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.001	0.008E
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.001		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0	0.0	0.0001	0.0	0.0017	0.0002	0.0008	0.0	0.0	0.0	0.0	0.0003
INCHES	0.008	0.0	0.042	0.0	0.794	0.087	0.375	0.007	0.009	0.006	0.019	0.140
STA AV	0.222	0.232	0.194	0.126	0.123	0.303	0.293	0.213	0.165	0.020	0.030	0.082

NOTES: To convert CPS to IN/DAY, multiply by 15.2575. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 188

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 2.05 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							COSHOCTON, OHIO WATERSHED 188												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	3.57	0.24	3.99	1.75	6.07	2.45	4.46	1.42	2.04	2.34	2.63	3.33	34.29					
	Q	0.063	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.066					
STA AV	P	2.59	2.19	3.22	3.21	3.86	3.96	4.14	2.91	2.64	2.08	2.37	2.15	35.31					
	Q	0.166	0.164	0.242	0.097	0.097	0.270	0.087	0.164	0.135	0.048	0.019	0.029	1.518					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1-30	0.019	1-30	0.018	1-30	0.029	1-30	0.041	1-29	0.053	1-29	0.059	1-28	0.062	1-22	0.062		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-23	3.060	9- 1	1.840	9- 1	2.070	9- 1	2.080	9- 1	2.080	9- 1	2.080	3- 3	2.340	3- 1	2.430		
		1944		1950		1950		1950		1950		1950		1963		1963			

NOTES: Watershed conditions: Cover of meadow to corn to wheat, improved practice plus deep plowing. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.21-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.21-1 and 26.30-3. Precipitation data from rain gage 115. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 188	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02	0.0	0.04	0.0	0.40	0.79	0.55	0.61	0.0	0.0	0.22		
2	0.0	0.10	0.0	0.0	0.0	0.05	0.0	0.0	0.03	0.44	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.07	0.49	0.05	0.10		
4	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.48		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.28	0.23	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.17	0.0		
8	0.0	0.0	0.06	0.0	0.0	0.0	0.35	0.24	0.0	0.0	0.05	0.0		
9	0.05	0.08	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.24	0.12	0.17	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.24	0.81	0.0	0.0	0.11	0.0	0.05	0.0		
12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.54	0.18	0.05	0.0	0.0	0.0	0.37	0.07		
16	0.0	0.0	0.30	0.0	0.19	0.17	0.09	0.0	0.0	0.0	0.37	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.07	0.0	0.10	0.94	0.17	0.15		
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.22	0.0	0.0	0.21		
20	0.0	0.04	0.23	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.67	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.67	0.0	0.0	0.26	0.02	0.0	0.0	0.02	0.0	0.42		
23	0.06	0.0	0.10	0.20	0.80	0.0	0.0	0.0	0.19	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.40	0.0	2.51	0.0	0.06	0.0	0.05	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.38	0.20	0.51	0.17	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.19	0.0	1.01	0.0	0.58	0.0	0.0	0.0	0.0	1.02		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.66		
29	0.22	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.59	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.65			0.0		0.0	0.0		0.0		0.0		
TOTAL	3.57	0.24	3.99	1.75	6.07	2.45	4.46	1.42	2.04	2.34	2.63	3.33		
STA AV	2.59	2.19	3.22	3.21	3.86	3.96	4.14	2.91	2.64	2.08	2.37	2.15		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 115. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 188												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.004		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.063	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.166	0.164	0.242	0.097	0.097	0.270	0.087	0.164	0.135	0.048	0.019	0.029

NOTES: To convert CFS to IN/DAY, multiply by 11.6106. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 185

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 7.40 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 185	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.53	0.38	4.02	1.80	6.08	2.48	4.23	1.37	2.02	2.40	2.73	3.60	34.64	
	O	0.444	0.059	0.177	0.005	0.131	0.0	0.058	0.0	0.0	0.0	0.0	0.121	0.994	
STA AV	P	2.70	2.20	3.28	3.25	3.77	3.83	4.07	2.86	2.62	2.04	2.37	2.19	35.17	
	O	0.141	0.224	0.344	0.135	0.120	0.270	0.176	0.116	0.135	0.048	0.019	0.052	1.782	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		7-24	0.199	7-24	0.057	1-30	0.065	1-30	0.117	1-30	0.172	1-29	0.286	1-28	0.377
MAXIMUMS FOR PERIOD OF RECORD															
		6-16	3.350	9- 1	1.910	9- 1	2.310	9- 1	2.320	3- 4	2.420	3- 4	2.880	3- 3	3.550
		1946		1950		1950		1950		1963		1963		1963	

NOTES: Watershed conditions: Cover of corn and meadow strips, improved practice with strip cropping. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.23-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.23-1 and 26.30-3. Precipitation data from rain gage 128. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 185	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.07	0.0	0.02	0.0	0.38	0.80	0.53	0.60	0.0	0.0	0.25			
2	0.0	0.17	0.0	0.0	0.0	0.04	0.0	0.0	0.09	0.30	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.14	0.13	0.0	0.0	0.03	0.53	0.05	0.10			
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.50			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0			
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.31	0.22	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.21	0.0			
8	0.0	0.0	0.05	0.0	0.0	0.0	0.29	0.23	0.0	0.0	0.0	0.0			
9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.20	0.09	0.20	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.28	0.85	0.0	0.0	0.11	0.0	0.04	0.0			
12	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.75	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.50	0.15	0.03	0.0	0.0	0.0	0.40	0.09			
16	0.0	0.0	0.32	0.0	0.20	0.17	0.05	0.0	0.0	0.0	0.40	0.0			
17	0.0	0.0	0.0	0.02	0.07	0.06	0.0	0.0	0.0	0.0	0.03	0.0			
18	0.0	0.0	0.0	0.0	0.18	0.0	0.10	0.0	0.08	0.99	0.15	0.20			
19	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.25	0.0	0.0	0.21			
20	0.0	0.05	0.20	0.05	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.65	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.67	0.0	0.0	0.26	0.05	0.0	0.0	0.05	0.0	0.46			
23	0.05	0.0	0.12	0.20	0.82	0.0	0.0	0.0	0.18	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.38	0.0	2.33	0.0	0.08	0.0	0.08	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.28	0.04	0.0	0.0	0.02	0.0	0.0			
26	0.0	0.0	0.36	0.18	0.45	0.16	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.26	0.0	1.04	0.0	0.54	0.0	0.0	0.0	0.0	1.04			
28	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04	0.75			
29	0.22	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.58	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	3.53	0.38	4.02	1.80	6.08	2.48	4.23	1.37	2.02	2.40	2.73	3.60			
STA AV	2.70	2.20	3.28	3.25	3.77	3.83	4.07	2.86	2.62	2.04	2.37	2.19			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 128. STA AV based on 29-30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 185												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.009	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.004	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.006	0.0	0.018	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.002	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.010	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.006
28	0.010	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.032
29	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.068		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.011		0.004		0.0		0.0	0.0		0.0		0.0
MEAN	0.0045	0.0006	0.0018	0.0	0.0013	0.0	0.0006	0.0	0.0	0.0	0.0	0.0012
INCHES	0.444	0.059	0.177	0.005	0.131	0.0	0.058	0.0	0.0	0.0	0.0	0.121
STA AV	0.141	0.224	0.344	0.135	0.120	0.270	0.176	0.116	0.135	0.048	0.019	0.052

NOTES: To convert CFS to IN/DAY, multiply by 3.2164. STA AV based on 29-30 yr period.

COSHOCKTON, OHIO WATERSHED 187

LOCATION: Coshockton Co., Ohio; 10 mi. NE of Coshockton; Walhonding River, Muskingum River Basin.

AREA: 7.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 187					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.62	0.39	4.46	1.83	6.17	2.59	4.35	1.45	2.00	2.38	2.77	3.27	35.28	
	O	1.148	0.656	1.321	0.323	0.935	0.131	0.028	0.0	0.0	0.0	0.0	0.153	4.696	
STA AV	P	2.72	2.25	3.39	3.28	3.88	4.02	4.27	2.84	2.81	2.12	2.43	2.21	36.22	
	O	0.851	0.679	1.137	0.552	0.246	0.333	0.117	0.058	0.106	0.019	0.019	0.256	4.372	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		7-24	0.100	1-30	0.080	1-30	0.140	1-30	0.279	1-30	0.453	1-29	0.656	1-29	0.963
MAXIMUMS FOR PERIOD OF RECORD															
		6-12	2.750	9-1	1.370	9-1	1.540	9-1	1.570	3-4	2.010	3-4	2.350	3-4	2.950
		1957		1950		1950		1950		1963		1963		1963	1959

NOTES: Watershed conditions: Cover of wheat and meadow strips, improved practice with strip cropping. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.24-5. For Geology description and map, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.24-1 and 26.30-3. Precipitation data from rain gage 116. Precipitation and runoff records began Jan. 1941. For long-time precipitation records, see U.S. Weather Bureau records at Coshockton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCKTON, OHIO WATERSHED 187	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.05	0.0	0.02	0.0	0.35	0.84	0.58	0.58	0.0	0.0	0.21		
2	0.0	0.12	0.0	0.0	0.0	0.07	0.0	0.0	0.05	0.43	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.20	0.08	0.0	0.0	0.04	0.50	0.06	0.10		
4	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.53		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.35	0.0	0.0	0.0		
6	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.26	0.25	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0		
8	0.0	0.0	0.06	0.0	0.0	0.0	0.27	0.28	0.0	0.0	0.03	0.0		
9	0.04	0.13	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.19	0.14	0.17	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.15	0.89	0.0	0.0	0.10	0.0	0.05	0.0		
12	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.82	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.60	0.15	0.03	0.0	0.0	0.0	0.39	0.15		
16	0.0	0.0	0.30	0.0	0.22	0.22	0.06	0.0	0.0	0.0	0.37	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.06	0.0	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.07	0.0	0.10	0.95	0.19	0.15		
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.21	0.0	0.0	0.21		
20	0.0	0.09	0.22	0.06	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.72	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.73	0.0	0.0	0.30	0.02	0.0	0.0	0.05	0.0	0.35		
23	0.07	0.0	0.13	0.16	0.85	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.37	0.0	2.54	0.0	0.05	0.0	0.07	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.37	0.22	0.43	0.17	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.25	0.0	0.99	0.0	0.52	0.0	0.0	0.0	0.0	0.97		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.60		
29	0.22	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.60	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.62	0.39	4.46	1.83	6.17	2.59	4.35	1.45	2.00	2.38	2.77	3.27		
STA AV	2.72	2.25	3.39	3.28	3.88	4.02	4.27	2.84	2.81	2.12	2.43	2.21		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 116. STA AV based on 28 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 187												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.059	0.0	0.024	0.0	0.016	0.0 T	0.0	0.0	0.0	0.0	0.0
2	0.0	0.058	0.0	0.018	0.0	0.009	0.0 T	0.0	0.0	0.0	0.0	0.0
3	0.0	0.031	0.0	0.013	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.018	0.0	0.011	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.013	0.0	0.009	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.009	0.0	0.007	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0
7	0.0	0.005	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.002	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.001	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0 T	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.003E	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.001	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.003	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.050	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.054	0.0	0.023	0.0	0.008E	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.036	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.038	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.044	0.0	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.007
28	0.004	0.0	0.027	0.0	0.054	0.0	0.0	0.0	0.0	0.0	0.0	0.035
29	0.071	0.0	0.021	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.004
30	0.198		0.021	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.001
31	0.071		0.024		0.024		0.0	0.0		0.0		0.0
MEAN	0.0112	0.0068	0.0129	0.0033	0.0091	0.0013	0.0003	0.0	0.0	0.0	0.0	0.0015
INCHES	1.148	0.656	1.321	0.323	0.935	0.131	0.028	0.0	0.0	0.0	0.0	0.153
STA AV	0.851	0.679	1.137	0.552	0.246	0.333	0.117	0.058	0.106	0.019	0.019	0.256

NOTES: To convert CFS to IN/DAY, multiply by 3.3058. STA AV based on 28 yr period.

COSHOCTON, OHIO WATERSHED 192

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 7.59 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 192									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	3.53	0.38	4.02	1.80	6.08	2.48	4.23	1.37	2.02	2.40	2.73	3.60	34.64					
	Q	0.725	0.190	0.503	0.011	0.270	0.0	0.005	0.0	0.0	0.0	0.0	0.288	1.992					
STA AV	P	2.70	2.20	3.28	3.25	3.77	3.83	4.07	2.86	2.62	2.04	2.37	2.19	35.17					
	Q	0.450	0.528	0.645	0.242	0.164	0.299	0.155	0.068	0.106	0.019	0.039	0.174	2.888					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		5-27	0.053	5-27	0.039	1-30	0.065	1-30	0.139	1-30	0.238	1-29	0.399	1-29	0.592	1-28	0.915		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-16	4.600	6-16	1.850	9- 1	2.020	9- 1	2.040	3- 4	2.110	3- 4	2.530	3- 4	3.850	3- 3	4.720		
		1946		1946		1950		1950		1963		1963		1963		1963			

NOTES: Watershed conditions: Cover of first year meadow, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.23-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.25-1 and 26.30-3. Precipitation data from rain gage 128. Precipitation and runoff records began Sept. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 192	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.07	0.0	0.02	0.0	0.38	0.80	0.53	0.60	0.0	0.0	0.25		
2	0.0	0.17	0.0	0.0	0.0	0.04	0.0	0.0	0.09	0.30	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.14	0.13	0.0	0.0	0.03	0.53	0.05	0.10		
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.31	0.22	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.21	0.0		
8	0.0	0.0	0.05	0.0	0.0	0.0	0.29	0.23	0.0	0.0	0.0	0.0		
9	0.05	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.20	0.09	0.20	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	0.85	0.0	0.0	0.11	0.0	0.04	0.0		
12	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.75	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.50	0.15	0.03	0.0	0.0	0.0	0.40	0.09		
16	0.0	0.0	0.32	0.0	0.20	0.17	0.05	0.0	0.0	0.0	0.40	0.0		
17	0.0	0.0	0.0	0.02	0.07	0.06	0.0	0.0	0.0	0.0	0.03	0.0		
18	0.0	0.0	0.0	0.0	0.18	0.0	0.10	0.0	0.08	0.99	0.15	0.20		
19	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.25	0.0	0.0	0.21		
20	0.0	0.05	0.20	0.05	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.67	0.0	0.0	0.26	0.05	0.0	0.0	0.05	0.0	0.46		
23	0.05	0.0	0.12	0.20	0.82	0.0	0.0	0.0	0.18	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.38	0.0	2.33	0.0	0.08	0.0	0.08	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.28	0.04	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.36	0.18	0.45	0.16	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.26	0.0	1.04	0.0	0.54	0.0	0.0	0.0	0.0	1.04		
28	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04	0.75		
29	0.22	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.58		0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.65		0.0		0.0	0.0		0.0		0.0		
TOTAL	3.53	0.38	4.02	1.80	6.08	2.48	4.23	1.37	2.02	2.40	2.73	3.60		
STA AV	2.70	2.20	3.28	3.25	3.77	3.83	4.07	2.86	2.62	2.04	2.37	2.19		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 128. STA AV based on 29-30 yr period.

COSHOCTON, OHIO WATERSHED 192												
1968 MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.028	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
20	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.013	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.014	0.0	0.016	0.0	0.002	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.007	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.018	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.022
28	0.006	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.055
29	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009E
30	0.127E		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003E
31	0.050E		0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002E
MEAN	0.0075	0.0021	0.0052	0.0001	0.0028	0.0	0.0	0.0	0.0	0.0	0.0	0.0030
INCHES	0.725	0.190	0.503	0.011	0.270	0.0	0.005	0.0	0.0	0.0	0.0	0.288
STA AV	0.450	0.528	0.645	0.242	0.164	0.299	0.155	0.068	0.106	0.019	0.039	0.174

NOTES: To convert CFS to IN/DAY, multiply by 3.1359. STA AV based on 29-30 yr period.

COSHOCKTON, OHIO WATERSHED 169

LOCATION: Coshockton Co., Ohio; 10 mi. NE of Coshockton; Walhonding River, Muskingum River Basin.

AREA: 29.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO		WATERSHED 169	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27	33.82			
	Q	1.157	0.504	1.270	0.492	1.097	0.305	0.138	0.006	0.0	0.000	0.019	0.531	5.521			
STA AV	P	2.66	2.16	3.24	3.20	3.79	3.95	4.21	2.87	2.70	1.99	2.42	2.17	35.36			
	Q	0.861	0.944	1.424	0.934	0.530	0.474	0.246	0.155	0.154	0.039	0.088	0.366	6.215			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours	Date	12 Hours	Date	1 Day	Date	Vol.		
									Vol.		Vol.		Vol.		Vol.		
1968		7-24	0.226	7-24	0.090	1-30	0.129	1-30	0.277	1-30	0.435	1-29	0.623	1-29	0.873	1-28	1.561
MAXIMUMS FOR PERIOD OF RECORD																	
		6-12	2.590	9-1	1.700	9-1	2.000	9-1	2.030	9-1	2.040	1-21	2.120	1-21	2.370	1-20	2.680
		1957		1950		1950		1950		1950		1959		1959		1959	

NOTES: Watershed conditions: Cover of 6% hardwoods, 6% reforested, 48% grassland, 34% cultivated, 6% miscellaneous, contour strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.27-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.27-1 and 26.30-3. Precipitation data from rain gage 113. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshockton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCKTON, OHIO WATERSHED 169	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.02	0.0	0.02	0.0	0.35	0.90	0.54	0.64	0.0	0.0	0.21			
2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.04	0.31	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.15	0.06	0.0	0.0	0.06	0.54	0.05	0.08			
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.50			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0			
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.30	0.20	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.22	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.24	0.0	0.0	0.03	0.0			
9	0.04	0.09	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.19	0.10	0.21	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.20	0.94	0.0	0.0	0.10	0.0	0.03	0.0			
12	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.80	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.55	0.20	0.05	0.0	0.0	0.0	0.40	0.08			
16	0.0	0.0	0.31	0.0	0.15	0.19	0.05	0.0	0.0	0.0	0.34	0.0			
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.04	0.0			
18	0.0	0.0	0.0	0.0	0.20	0.0	0.10	0.0	0.10	0.95	0.12	0.15			
19	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.19	0.02	0.03	0.22			
20	0.0	0.04	0.20	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.65	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.65	0.0	0.0	0.25	0.05	0.0	0.0	0.05	0.0	0.40			
23	0.05	0.0	0.15	0.19	0.73	0.0	0.0	0.0	0.20	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.36	0.0	2.33	0.0	0.10	0.0	0.07	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.35	0.15	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.24	0.0	1.57	0.0	0.39	0.0	0.0	0.0	0.0	0.97			
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.66			
29	0.21	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.57	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	3.56	0.27	4.03	1.74	6.00	2.50	4.07	1.35	2.08	2.38	2.57	3.27			
STA AV	2.66	2.16	3.24	3.20	3.79	3.95	4.21	2.87	2.70	1.99	2.42	2.17			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 113. STA AV based on 29 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 169												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.200	0.0 T	0.079	0.001	0.073	0.040	0.006	0.0	0.0	0.0	0.0 T
2	0.0 T	0.180	0.0 T	0.041	0.001	0.047	0.001	0.0	0.0	0.0	0.0	0.0 T
3	0.0 T	0.074	0.0	0.037	0.001	0.030	0.0 T	0.0	0.0	0.0	0.0	0.0 T
4	0.0 T	0.055	0.0	0.075	0.001	0.023	0.0	0.0	0.0	0.0	0.0	0.028
5	0.0	0.040	0.0	0.034	0.001	0.019	0.0	0.0	0.0	0.0	0.0	0.0 T
6	0.0	0.028	0.0	0.028	0.001	0.016	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.023	0.0 T	0.026	0.0 T	0.013	0.0	0.001	0.0	0.0	0.0	0.0
8	0.0	0.014	0.0 T	0.023	0.0 T	0.011	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.007	0.004	0.018	0.0 T	0.008	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.003	0.002	0.016	0.001	0.007	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.001	0.001	0.015	0.078	0.039	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0 T	0.009	0.012	0.002	0.022	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0 T	0.011	0.012	0.001	0.008	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.007	0.073E	0.008	0.006	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.043	0.022	0.037	0.008	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.082	0.010	0.025	0.011	0.0	0.0	0.0	0.0	0.001	0.0
17	0.0	0.0	0.020	0.010	0.005	0.005	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.015	0.010	0.008	0.004	0.0	0.0	0.0	0.0 T	0.0	0.0
19	0.0 T	0.0	0.015	0.008	0.016	0.003	0.0	0.0	0.0	0.0 T	0.0	0.014
20	0.0 T	0.0	0.025	0.007	0.016	0.001	0.0	0.0	0.0	0.0	0.0	0.001
21	0.001	0.0	0.130	0.006	0.012	0.001	0.0	0.0	0.0	0.0	0.0	0.0
22	0.005	0.0	0.349	0.006	0.008	0.005	0.0	0.0	0.0	0.0	0.0	0.069
23	0.005	0.0	0.154	0.010	0.093	0.002	0.0	0.0	0.0	0.0	0.0	0.023
24	0.0 T	0.0	0.120	0.006	0.167	0.002	0.129	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.078	0.006	0.051	0.006	0.001	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0 T	0.087	0.006	0.073	0.004	0.0 T	0.0	0.0	0.0	0.0	0.0
27	0.0 T	0.0 T	0.154	0.005	0.441	0.002	0.0 T	0.0	0.0	0.0	0.0	0.139
28	0.127	0.0 T	0.042	0.003	0.113	0.001	0.0 T	0.0	0.0	0.0	0.022	0.275
29	0.368	0.0 T	0.047	0.002	0.087	0.001	0.0 T	0.0	0.0	0.0	0.0 T	0.049
30	0.716		0.057	0.002	0.066	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.036
31	0.215		0.128		0.049		0.0	0.0		0.0		0.026
MEAN	0.0464	0.0216	0.0510	0.0204	0.0440	0.0127	0.0056	0.0002	0.0	0.0	0.0008	0.0213
INCHES	1.157	0.504	1.270	0.492	1.097	0.305	0.138	0.006	0.0	0.000	0.019	0.531
STA AV	0.861	0.944	1.424	0.934	0.530	0.474	0.246	0.155	0.154	0.039	0.088	0.366

NOTES: To convert CFS to IN/DAY, multiply by 0.8207. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 177

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 75.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 177	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34	34.93	
	Q	1.519	0.931	1.879	0.677	1.477	0.366	0.168	0.008	0.000	0.002	0.024	0.673	7.725	
STA AV	P	2.72	2.26	3.39	3.26	3.85	3.89	4.14	2.85	2.62	2.03	2.48	2.23	35.71	
	Q	1.105	1.152	1.812	1.172	0.650	0.544	0.247	0.116	0.126	0.058	0.146	0.535	7.662	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date					
		Rate	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.	Vol.					
1968		7-24	0.194	7-24	0.090	1-30	0.130	1-30	0.295	1-30	0.482	1-29	0.742	1-29	1.134
															2.108
MAXIMUMS FOR PERIOD OF RECORD															
		6-12	3.140	6-12	1.330	9-1	1.550	9-1	1.630	3-4	1.770	3-4	2.060	3-4	2.480
		1957		1957		1950		1950		1963		1963		1963	3.220
															1964

NOTES: Watershed conditions: Cover of 4% hardwoods, 6% reforested, 67% grassland, 17% cultivated, 6% miscellaneous, contour strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.28-7. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.28-1 and 26.30-3. Precipitation data from rain gage 103. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 177	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.03	0.0	0.02	0.0	0.38	0.93	0.45	0.73	0.0	0.0	0.24			
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.07	0.33	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.23	0.08	0.0	0.0	0.05	0.38	0.06	0.10			
4	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.49			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0			
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.21	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.24	0.0	0.0	0.05	0.0			
9	0.04	0.14	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.09	0.10	0.19	0.0	0.0			
11	0.0	0.0	0.0	0.0	1.28	1.14	0.0	0.0	0.10	0.0	0.05	0.0			
12	0.0	0.04	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0			
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.36	0.0	0.0	0.75	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.64	0.0	0.0	0.0	0.42	0.35	0.05	0.0	0.0	0.0	0.45	0.07			
16	0.0	0.0	0.30	0.0	0.28	0.26	0.22	0.0	0.0	0.0	0.41	0.0			
17	0.0	0.0	0.0	0.02	0.05	0.05	0.0	0.0	0.0	0.0	0.06	0.0			
18	0.0	0.0	0.0	0.0	0.25	0.0	0.10	0.0	0.10	0.95	0.10	0.15			
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.20	0.0	0.0	0.24			
20	0.0	0.07	0.25	0.05	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.65	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.79	0.0	0.0	0.25	0.12	0.0	0.0	0.02	0.0	0.43			
23	0.05	0.0	0.19	0.15	0.78	0.0	0.0	0.0	0.29	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.39	0.0	2.17	0.0	0.02	0.0	0.06	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0			
26	0.0	0.0	0.37	0.15	0.45	0.19	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.40	0.0	0.90	0.0	0.18	0.0	0.0	0.0	0.0	0.95			
28	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.67			
29	0.20	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.60	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	3.61	0.39	4.70	1.68	6.10	3.05	3.82	1.15	2.20	2.18	2.71	3.34			
STA AV	2.72	2.26	3.39	3.26	3.85	3.89	4.14	2.85	2.62	2.03	2.48	2.23			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 103. STA AV based on 29 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 177												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.028	0.699	0.0	0.294	0.006	0.208	0.104	0.014	0.0	0.0	0.0	0.008E
2	0.024	0.575	0.0	0.196	0.007	0.138	0.013	0.002	0.0	0.0	0.0	0.008
3	0.014	0.314	0.0	0.174	0.011	0.099	0.001	0.001	0.0	0.0	0.0	0.002
4	0.004	0.270E	0.0	0.255	0.008	0.068	0.0	0.001	0.0	0.0	0.0	0.079
5	0.001	0.256E	0.0 T	0.154	0.004	0.054	0.0	0.001	0.0 T	0.0	0.0	0.016
6	0.0	0.174E	0.006	0.119	0.002	0.044	0.0	0.001	0.0 T	0.0	0.0	0.003
7	0.0	0.119	0.011	0.101	0.001	0.040	0.0	0.001	0.0	0.0	0.0	0.001
8	0.0	0.101	0.016	0.082	0.0	0.034	0.0	0.002E	0.0	0.0	0.0	0.0
9	0.0	0.085	0.014	0.064	0.001	0.025	0.0	0.003	0.0	0.0	0.0	0.0
10	0.0	0.071	0.008	0.061	0.0	0.021	0.0	0.001	0.0	0.0	0.0	0.0
11	0.0	0.058	0.008	0.058	0.140	0.120	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.047	0.026	0.047	0.032	0.069	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 E	0.040	0.043	0.034	0.010	0.030	0.0	0.0	0.0	0.0	0.0	0.0
14	0.001E	0.034	0.064	0.118	0.026	0.026	0.0	0.0	0.0	0.0	0.0	0.0
15	0.001E	0.028	0.103	0.073	0.063	0.032	0.0	0.0	0.0	0.0	0.0	0.0
16	0.001E	0.022	0.210	0.042	0.080	0.045	0.0	0.0	0.0	0.0	0.006	0.0
17	0.001	0.016	0.123	0.036	0.030	0.024	0.0	0.0	0.0	0.0	0.0 T	0.0
18	0.001	0.011	0.104	0.032	0.033	0.015	0.0	0.0	0.0	0.003	0.0	0.0
19	0.001	0.008	0.095	0.024	0.055	0.009	0.0	0.0	0.0	0.002	0.0	0.027
20	0.001	0.007	0.113	0.021	0.058	0.003	0.0	0.0	0.0	0.0	0.0	0.014
21	0.001	0.007	0.295	0.016	0.057	0.002	0.0	0.0	0.0	0.0	0.0	0.008
22	0.001	0.006	0.930	0.013	0.040	0.010	0.0	0.0	0.0	0.0	0.0	0.060
23	0.005	0.003	0.682	0.024	0.255	0.003	0.0	0.0	0.0	0.0	0.0	0.037
24	0.003	0.001	0.529	0.022	0.504	0.002	0.371	0.0	0.0	0.0	0.0	0.017
25	0.002	0.001	0.318	0.014	0.236	0.015	0.030	0.0	0.0	0.0	0.0	0.001
26	0.0 T	0.0	0.321	0.021	0.286	0.010	0.005	0.0	0.0	0.0	0.0	0.0
27	0.0 T	0.0	0.738	0.020	1.362	0.011	0.008	0.0	0.0	0.0	0.0	0.334
28	0.268	0.0	0.343	0.013	0.598	0.002	0.003	0.0	0.0	0.0	0.058	0.878
29	1.260	0.0	0.277	0.013	0.374	0.002	0.0	0.0	0.0	0.0	0.008	0.272
30	2.246		0.192	0.009	0.246	0.001	0.0	0.0	0.0	0.0	0.002E	0.204
31	0.962		0.399		0.167		0.0	0.0		0.0		0.169
MEAN	0.1557	0.1019	0.1926	0.0717	0.1513	0.0388	0.0172	0.0008	0.0	0.0002	0.0025	0.0690
INCHES	1.519	0.931	1.879	0.677	1.477	0.366	0.168	0.008	0.000	0.002	0.024	0.673
STA AV	1.105	1.152	1.812	1.172	0.650	0.544	0.247	0.116	0.126	0.058	0.146	0.535

NOTES: To convert CFS to IN/DAY, multiply by 0.3148. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Walhonding River, Muskingum River Basin.

AREA: 303.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO				WATERSHED 196			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual							
1968	P	3.60	0.36	4.45	1.77	6.25	2.66	4.32	1.35	2.11	2.40	2.79	3.38	35.46							
	O	2.086	1.346	2.795	1.398	2.945	0.683	0.341	0.099	0.065	0.088	0.190	1.320	13.354							
STA AV	P	2.73	2.43	3.59	3.42	3.82	4.28	4.26	2.83	2.66	2.18	2.48	2.29	36.96							
	O	1.761	1.921	2.945	2.348	1.516	1.077	0.563	0.284	0.235	0.206	0.393	0.962	14.211							
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																					
		Maximum Discharge				Maximum Volume for Selected Time Interval															
		Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	2 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.				
1968		7-24	0.230	7-24	0.114	1-30	0.171	1-30	0.379	1-30	0.623	1-29	0.937	1-29	1.380	1-28	2.624				
MAXIMUMS FOR PERIOD OF RECORD																					
		6-12	3.720	6-12	1.310	6-12	1.440	6-16	1.630	1-21	2.060	1-21	2.920	1-20	3.210	3- 4	4.630				
		1957		1957		1957		1946		1959		1959		1959		1964					

NOTES: Watershed conditions: Cover of 27% woodland, 50% grassland, 19% cultivated, 4% miscellaneous, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.30-1 and 26.30-3. Precipitation data from rain gages 108 and 116. Precipitation and runoff records began May 1937. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													
COSHOCTON, OHIO WATERSHED 196													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.04	0.0	0.02	0.0	0.38	0.84	0.56	0.58	0.0	0.0	0.22	
2	0.0	0.12	0.0	0.0	0.0	0.06	0.0	0.0	0.03	0.41	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.19	0.08	0.0	0.0	0.05	0.48	0.06	0.09	
4	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.51	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.36	0.0	0.0	0.0	
6	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.28	0.24	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.22	0.0	
8	0.0	0.0	0.06	0.0	0.0	0.0	0.25	0.26	0.0	0.0	0.02	0.0	
9	0.04	0.12	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.13	0.12	0.19	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.23	0.96	0.0	0.0	0.11	0.0	0.05	0.0	
12	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.76	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.56	0.15	0.04	0.0	0.0	0.0	0.41	0.12	
16	0.0	0.0	0.30	0.0	0.23	0.21	0.09	0.0	0.0	0.0	0.38	0.0	
17	0.0	0.0	0.0	0.02	0.10	0.06	0.01	0.0	0.0	0.0	0.05	0.0	
18	0.0	0.0	0.0	0.0	0.20	0.0	0.06	0.0	0.10	0.95	0.16	0.17	
19	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.22	0.0	0.0	0.20	
20	0.0	0.09	0.21	0.05	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.69	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.78	0.0	0.0	0.30	0.02	0.0	0.0	0.05	0.0	0.38	
23	0.07	0.0	0.09	0.18	0.84	0.0	0.0	0.0	0.29	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.40	0.0	2.53	0.0	0.07	0.0	0.07	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.02	0.0	0.0	
26	0.0	0.0	0.38	0.19	0.39	0.15	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.31	0.0	1.03	0.0	0.46	0.0	0.0	0.0	0.0	1.02	
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	0.65	
29	0.22	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
30	0.61	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		3.60	0.36	4.45	1.77	6.25	2.66	4.32	1.35	2.11	2.40	2.79	3.38
STA AV		2.73	2.43	3.59	3.42	3.82	4.28	4.26	2.83	2.66	2.18	2.48	2.29

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gages 108 and 116. STA AV based on 31-32 yr period.

COSHOCTON, OHIO WATERSHED 196												
MEAN DAILY DISCHARGE (cfs)												
1968	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.182	4.000	0.088	2.242	0.159	1.134	0.366	0.153	0.041	0.014	0.025	0.103
2	0.182	3.375	0.085	1.164	0.148	0.941	0.123	0.060	0.048	0.021	0.026	0.124E
3	0.182	1.680	0.079	0.967	0.171	0.719	0.076	0.048	0.032	0.099	0.027	0.091E
4	0.155	1.220	0.079	1.482	0.165	0.550	0.063	0.079	0.023	0.033	0.027	1.214E
5	0.123	0.948	0.100	1.042	0.138	0.457	0.063	0.057	0.042	0.033	0.026	0.250
6	0.128	0.783	0.100	0.817	0.119	0.367	0.071	0.049	0.049	0.046	0.032	0.144
7	0.124	0.644	0.079	0.763	0.107	0.330	0.071	0.051	0.024	0.040E	0.054	0.110
8	0.106	0.548	0.093	0.661	0.108	0.281	0.079	0.061	0.022	0.025	0.036	0.092
9	0.110	0.431	0.140	0.531	0.133	0.234	0.064	0.076	0.022	0.022	0.030	0.076
10	0.118	0.360	0.159	0.490	0.111	0.205	0.052	0.076	0.029	0.035	0.029	0.058
11	0.110	0.339	0.133	0.442	1.601	0.592	0.056	0.049	0.034	0.025	0.029	0.058
12	0.098	0.299	0.403	0.383	0.797	0.450	0.047	0.041	0.033	0.023	0.040	0.072
13	0.102	0.250	0.375	0.339	0.344	0.216	0.041	0.037	0.029	0.022	0.032	0.082
14	0.114	0.234	0.274	0.894	0.417	0.187	0.041	0.031	0.027	0.022	0.028	0.070
15	0.114	0.218	0.523	1.062	0.972	0.178	0.041	0.029	0.025	0.022	0.047	0.058
16	0.106	0.210	1.523	0.543	1.410	0.247	0.045	0.028	0.023	0.022	0.221	0.058
17	0.102	0.179	0.913	0.477	0.595	0.175	0.054	0.028	0.020	0.023	0.085	0.054
18	0.102	0.143	0.687	0.417	0.661	0.151	0.039	0.028	0.020	0.148	0.090	0.054
19	0.106	0.148	0.592	0.360	0.633	0.128	0.037	0.028	0.031	0.119	0.060	0.252
20	0.114	0.153	0.679	0.337	0.649	0.108	0.030	0.028	0.026	0.034	0.046	0.181
21	0.172	0.138	2.111	0.308	0.772	0.095	0.028	0.026	0.022	0.027	0.044	0.115
22	0.204	0.123	6.686	0.270	0.645	0.151	0.029	0.025	0.021	0.026	0.044	0.428
23	0.236	0.118	3.730	0.300	2.471	0.103	0.039	0.025	0.036	0.027	0.039	0.425
24	0.192	0.114	2.267	0.270	4.745	0.088	2.078	0.024	0.026	0.028	0.036	0.212
25	0.143	0.102	1.581	0.234	1.722	0.144	0.251	0.022	0.023	0.028	0.036	0.160
26	0.123	0.095	1.590	0.239	1.707	0.120	0.074	0.020	0.021	0.028	0.033	0.138
27	0.114	0.095	4.404	0.236	9.156	0.123	0.161	0.018	0.021	0.027	0.030	2.720
28	1.147	0.095	1.705	0.183	2.841	0.084	0.089	0.017	0.019	0.026	0.842E	6.526
29	5.567	0.091	1.369	0.164	1.727	0.073	0.049	0.016	0.016	0.025	0.233	1.350
30	11.490		1.033	0.177	1.299	0.062	0.040	0.017	0.016	0.024	0.090	0.908
31	4.686		1.997		0.965		0.049	0.016		0.024		0.613
MEAN	0.8565	0.5908	1.1476	0.5932	1.2092	0.2898	0.1402	0.0407	0.0274	0.0361	0.0806	0.5419
INCHES	2.086	1.346	2.795	1.398	2.945	0.683	0.341	0.099	0.065	0.088	0.190	1.320
STA AV	1.761	1.921	2.945	2.348	1.516	1.077	0.563	0.284	0.235	0.206	0.393	0.962

NOTES: To convert CFS to IN/DAY, multiply by 0.7855. STA AV based on 31-32 yr period.

COSHOCTON, OHIO WATERSHED 10

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 122.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO		WATERSHED 10	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.61	0.42	4.57	1.69	6.84	3.81	4.05	1.43	2.43	2.45	2.83	3.65	37.78			
	Q	1.591	0.906	1.778	0.944	2.270	0.951	0.373	0.128	0.086	0.074	0.100	0.842	10.043			
STA AV	P	2.82	2.48	3.52	3.44	3.72	4.06	4.21	2.84	2.56	2.20	2.54	2.38	36.76			
	Q	1.165	1.345	1.896	1.530	0.926	0.689	0.351	0.159	0.119	0.147	0.235	0.627	9.189			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours Vol.	Date	12 Hours Vol.	Date	1 Day Vol.	Date	2 Days Vol.	Date	8 Days Vol.
1968		5-27	0.072	5-27	0.068	5-27	0.128	1-30	0.278	1-30	0.459	1-29	0.689	1-29	1.019	1-28	1.820
MAXIMUMS FOR PERIOD OF RECORD																	
		6-28	1.760	6-28	0.980	6-28	1.390	6-28	1.800	6-28	1.990	6-28	2.140	6-28	2.250	3- 1	2.940
		1957		1957		1957		1957		1957		1957		1957		1963	

NOTES: Watershed conditions: Cover of 21% cropland, 48% grassland, 25% woodland, 6% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.31-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.31-1 and 26.37-2. Precipitation data from rain gage 27. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 10	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.06	0.0	0.02	0.0	0.36	1.10	0.59	0.86	0.0	0.0	0.0	0.29		
2	0.0	0.16	0.0	0.0	0.0	0.09	0.0	0.0	0.09	0.39	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.25	0.10	0.0	0.0	0.08	0.57	0.06	0.10	0.10		
4	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.50	0.50		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.26	0.29	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.17	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.39	0.0	0.0	0.03	0.0	0.0		
9	0.05	0.14	0.10	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.13	0.21	0.20	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.43	1.54	0.0	0.0	0.14	0.0	0.06	0.0	0.0		
12	0.0	0.0	0.78	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.82	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.50	0.70	0.05	0.0	0.0	0.0	0.42	0.09	0.09		
16	0.0	0.0	0.31	0.0	0.25	0.30	0.31	0.0	0.0	0.0	0.43	0.0	0.0		
17	0.0	0.0	0.0	0.02	0.06	0.03	0.0	0.0	0.0	0.0	0.05	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.29	0.0	0.17	0.0	0.10	1.00	0.11	0.20	0.20		
19	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.14	0.0	0.0	0.24	0.24		
20	0.0	0.06	0.22	0.03	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.64	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.83	0.0	0.0	0.0	0.44	0.0	0.0	0.03	0.0	0.50	0.50		
23	0.05	0.0	0.09	0.12	0.86	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.39	0.08	1.82	0.0	0.04	0.0	0.06	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.03	0.44	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.42	0.14	0.54	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.33	0.0	1.06	0.0	0.07	0.0	0.0	0.0	0.0	0.0	1.00		
28	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.73	0.73		
29	0.24	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.59	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		3.61	0.42	4.57	1.69	6.84	3.81	4.05	1.43	2.43	2.45	2.83	3.65		
STA AV		2.82	2.48	3.52	3.44	3.72	4.06	4.21	2.84	2.56	2.20	2.54	2.38		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 27. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.086	1.037	0.042	0.563	0.036	0.319	0.452	0.052	0.047E	0.010	0.020	0.030
2	0.086	0.974	0.042	0.282	0.030	0.285	0.125	0.042	0.023E	0.011	0.010	0.030
3	0.086	0.491	0.036	0.221	0.039	0.223	0.070	0.030	0.019	0.034	0.010	0.030
4	0.086	0.303	0.030	0.401	0.048	0.190	0.048	0.030	0.014	0.014	0.010	0.109
5	0.086	0.226	0.030	0.328	0.036	0.149	0.042	0.030	0.023E	0.010	0.010	0.062
6	0.078	0.194	0.030	0.234	0.030	0.111	0.036	0.030	0.025E	0.010	0.010	0.055
7	0.070	0.161	0.030	0.212	0.030	0.086	0.030	0.030	0.019	0.010	0.010	0.055
8	0.062	0.129	0.030	0.190	0.030	0.062	0.030	0.037	0.019	0.010	0.010	0.048
9	0.055	0.111	0.030	0.169	0.030	0.055	0.030	0.042	0.019	0.010	0.010	0.042
10	0.055	0.094	0.036	0.139	0.030	0.055	0.030	0.030	0.019E	0.012	0.010	0.036
11	0.055	0.078	0.042	0.111	0.391	0.550	0.030	0.030	0.019	0.010	0.010	0.030
12	0.055	0.062	0.085	0.094	0.229	0.363	0.030	0.024	0.014	0.010	0.010	0.030
13	0.055	0.055	0.093	0.086	0.086	0.180	0.030	0.019	0.010	0.010	0.010	0.030
14	0.048	0.055	0.070	0.239	0.103	0.139	0.030	0.019	0.010	0.010	0.010	0.030
15	0.042	0.055	0.138	0.302	0.192	0.350	0.030	0.019	0.010E	0.010	0.019	0.030
16	0.042	0.055	0.331	0.144	0.364	0.342	0.030	0.019	0.010	0.010	0.047	0.030
17	0.042	0.055	0.222	0.120	0.173	0.223	0.030	0.019	0.010	0.010	0.030	0.030
18	0.042	0.048	0.152	0.111	0.242	0.180	0.030	0.019	0.010	0.040	0.019	0.030
19	0.048	0.042	0.139	0.102	0.227	0.137	0.030	0.014	0.010	0.025	0.014	0.075
20	0.055	0.042	0.163	0.094	0.257	0.111	0.030	0.010	0.010	0.014	0.010	0.078
21	0.055	0.042	0.478	0.086	0.286	0.094	0.030	0.010	0.010E	0.010	0.010	0.062
22	0.062	0.042	1.638	0.078	0.249	0.086	0.030	0.010	0.010	0.010	0.010	0.092
23	0.070	0.042	1.146	0.070	0.783	0.078	0.030	0.010	0.010	0.010	0.010	0.103
24	0.070	0.042	0.612	0.070	1.527	0.062	0.231	0.010	0.010	0.010	0.010	0.070
25	0.062	0.042	0.419	0.070	0.548	0.101	0.093	0.010	0.010	0.010	0.010	0.055
26	0.055	0.042	0.336	0.075	0.537	0.080	0.070	0.010	0.010	0.010	0.010	0.056
27	0.055	0.042	1.353	0.078	3.045	0.086	0.062	0.010	0.010E	0.010	0.010	0.500
28	0.191	0.042	0.447	0.062	0.930	0.062	0.048	0.010	0.010	0.010	0.081	1.640
29	1.500	0.042	0.300	0.055	0.489	0.055	0.042	0.010	0.010	0.010	0.044	0.412
30	3.461		0.214	0.048	0.343	0.055	0.042	0.010	0.010	0.010	0.030	0.238
31	1.338		0.401		0.294		0.036	0.010		0.0		0.195
MEAN	0.2631	0.1602	0.2940	0.1612	0.3753	0.1624	0.0616	0.0212	0.0147	0.0123	0.0172	0.1392
INCHES	1.591	0.906	1.778	0.944	2.270	0.951	0.373	0.128	0.086	0.074	0.100	0.842
STA AV	1.165	1.345	1.896	1.530	0.926	0.689	0.351	0.159	0.119	0.147	0.235	0.627

NOTES: To convert CFS to IN/DAY, multiply 0.19510. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 5

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 349.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 5											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18	39.14											
	O	1.206	0.887	1.991	1.063	2.564	1.110	0.446	0.068	0.046	0.061	0.155	0.939	10.537											
STA AV	P	2.82	2.43	3.51	3.42	3.79	3.98	4.22	2.89	2.63	2.15	2.63	2.42	36.88											
	O	1.384	1.469	2.251	1.775	1.170	0.782	0.431	0.195	0.117	0.176	0.314	0.728	10.791											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1968		6-11	0.099	7-1	0.073	7-1	0.111	5-27	0.250	5-27	0.366	5-26	0.562	1-29	0.791	5-23	1.645								
MAXIMUMS FOR PERIOD OF RECORD																									
		6-28	1.090	6-28	0.770	6-28	1.040	6-28	1.380	3-4	1.580	1-21	2.310	1-20	2.640	1-20	3.040								
		1957		1957		1957		1957		1963		1959		1959		1959									

NOTES: Watershed conditions: Cover of 20% cropland, 54% grassland, 23% woodland, 3% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 26.32-5 (Revised). For Geology description and map, see foregoing reference, pp. 26.32-1 and 26.37-2. Precipitation data from rain gage 91. Precipitation and runoff records began Jan. 1940. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 5											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.06	0.0	0.02	0.0	0.35	1.10	0.44	0.64	0.0	0.07	0.26													
2	0.0	0.12	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.34	0.0	0.0													
3	0.0	0.0	0.0	0.0	0.18	0.17	0.0	0.0	0.04	0.39	0.05	0.10													
4	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.54													
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0													
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.23	0.31	0.0													
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.19	0.0													
8	0.0	0.0	0.0	0.0	0.05	0.0	0.03	0.51	0.0	0.0	0.05	0.0													
9	0.05	0.10	0.07	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.18	0.20	0.16	0.0	0.0													
11	0.0	0.0	0.0	0.0	1.54	1.64	0.0	0.0	0.20	0.0	0.06	0.0													
12	0.0	0.0	0.95	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.18	0.0													
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
14	0.36	0.0	0.0	0.74	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
15	0.64	0.0	0.0	0.0	0.52	0.92	0.0	0.0	0.0	0.0	0.42	0.10													
16	0.0	0.0	0.30	0.0	0.23	0.27	1.16	0.0	0.0	0.0	0.48	0.0													
17	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.0	0.07	0.0													
18	0.0	0.0	0.0	0.0	0.34	0.0	0.20	0.0	0.07	1.00	0.08	0.20													
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.22	0.0	0.05	0.73													
20	0.0	0.06	0.19	0.06	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
21	0.0	0.0	0.65	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
22	0.0	0.0	0.81	0.0	0.0	0.0	0.46	0.0	0.0	0.02	0.0	0.45													
23	0.05	0.0	0.10	0.10	0.90	0.0	0.0	0.0	0.05	0.0	0.0	0.0													
24	0.0	0.0	0.0	0.0	0.40	0.05	1.40	0.0	0.03	0.0	0.07	0.0													
25	0.0	0.0	0.0	0.0	0.0	0.47	0.08	0.0	0.0	0.0	0.0	0.0													
26	0.0	0.0	0.44	0.17	0.45	0.25	0.0	0.0	0.0	0.0	0.0	0.0													
27	0.0	0.0	0.41	0.0	1.08	0.0	0.13	0.0	0.0	0.0	0.0	1.05													
28	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75													
29	0.27	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
30	0.58		0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31	0.0		0.67		0.0		0.0	0.0		0.0		0.0													
TOTAL	3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18													
STA AV	2.82	2.43	3.51	3.42	3.79	3.98	4.22	2.89	2.63	2.15	2.63	2.42													

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 91. STA AV based on 29 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.173	2.764	0.066	1.629	0.108	1.034	2.135E	0.134	0.154	0.006	0.014	0.115
2	0.173	2.431	0.066	0.979E	0.099	0.824	0.492	0.055	0.150	0.006	0.027	0.135
3	0.167	1.395	0.056	0.834E	0.127	0.767	0.272	0.037	0.011	0.080	0.024	0.084
4	0.150	0.990	0.056	1.243	0.130	0.578	0.206	0.093	0.007	0.008	0.022	0.667
5	0.124	0.764	0.072	1.071	0.098	0.413	0.170	0.051	0.050	0.009	0.018	0.210
6	0.102	0.622	0.066	0.828	0.083	0.349	0.144	0.033	0.073	0.035	0.039	0.104
7	0.087	0.534	0.056	0.730	0.077	0.311	0.116	0.041	0.014	0.027	0.069	0.074
8	0.077	0.453	0.069	0.637	0.077	0.260	0.109	0.152	0.011	0.015	0.034	0.058
9	0.072	0.354	0.099	0.534	0.116	0.213	0.119	0.117	0.007	0.012	0.023	0.040
10	0.069	0.293	0.106	0.448	0.084	0.198	0.102	0.060	0.022	0.021	0.019	0.026
11	0.066	0.268	0.090	0.380	1.739	2.832E	0.087	0.035	0.029	0.020	0.017	0.022
12	0.061	0.236	0.286	0.332	0.854	1.229	0.080	0.023	0.017	0.016	0.037	0.038
13	0.080	0.213	0.238	0.302	0.431	0.579	0.078	0.020	0.009	0.012	0.030	0.056
14	0.098	0.198	0.228	0.784	0.480	0.442	0.085	0.020	0.006	0.012	0.019	0.052
15	0.090	0.185	0.401	0.956E	0.738	1.043	0.061	0.013	0.005	0.011	0.065	0.038
16	0.078	0.167	1.047	0.507E	1.349	0.968	0.191	0.015	0.004	0.008	0.361	0.031
17	0.069	0.135	0.683	0.398E	0.694	0.620	0.082	0.015	0.005	0.008	0.104	0.024
18	0.072	0.102	0.516	0.404	0.967	0.475	0.093	0.013	0.006	0.228	0.093	0.026
19	0.077	0.111	0.479	0.340	0.794	0.402	0.095	0.011	0.013	0.133E	0.058	0.340
20	0.083	0.119	0.576	0.302	0.937	0.327	0.035	0.008	0.013	0.038E	0.037	0.175
21	0.118	0.095	1.441	0.276	1.165	0.271	0.024	0.006	0.010	0.031E	0.031	0.102
22	0.126	0.077	4.019	0.244	0.925	0.242	0.160	0.005	0.009	0.025E	0.028	0.491
23	0.125	0.077	3.114	0.236	2.333	0.204	0.067	0.006	0.009	0.019	0.027	0.364
24	0.094	0.074	2.032	0.214	3.817	0.183	0.688	0.004	0.009	0.016	0.028	0.166
25	0.074	0.066	1.509	0.179	1.751	0.406	0.504	0.004	0.007	0.016	0.027	0.113
26	0.072	0.066	1.278	0.211	1.976	0.385	0.100	0.005	0.006	0.016	0.025	0.087
27	0.092	0.072	4.708	0.186	8.292	0.343	0.077	0.005	0.006	0.016	0.023	2.557
28	0.767	0.072	1.917	0.141	2.994	0.163	0.068	0.004	0.006	0.014	0.709	5.050
29	3.645	0.066	1.440	0.129	1.897	0.121	0.038	0.005	0.006	0.013	0.183	1.159
30	7.366		1.107	0.130	1.422	0.088	0.031	0.005	0.006	0.012	0.082	0.781
31	3.231		1.367		1.040		0.038	0.005		0.012		0.579
MEAN	0.5704	0.4485	0.9416	0.5196	1.2128	0.5424	0.2112	0.0323	0.0227	0.0290	0.0759	0.4441
INCHES	1.206	0.887	1.991	1.063	2.564	1.110	0.446	0.068	0.046	0.061	0.155	0.939
STA AV	1.384	1.469	2.251	1.775	1.170	0.782	0.431	0.195	0.117	0.176	0.314	0.728

NOTES: To convert CFS to IN/DAY, multiply by 0.068200. STA AV based on 29 yr period.

COSHOCTON, OHIO WATERSHED 92

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 920.00 acres 1.44 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO		WATERSHED 92	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18	39.14			
	O	1.562	1.177	2.255	1.302	3.050	1.241	0.422	0.079	0.032	0.054	0.210	1.233	12.618			
STA AV	P	2.80	2.49	3.52	3.43	3.71	4.04	4.26	2.86	2.57	2.22	2.56	2.39	36.84			
	O	1.502	1.683	2.463	1.948	1.223	0.844	0.420	0.177	0.117	0.185	0.365	0.834	11.760			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968		6-11	0.107	6-11	0.069	1-30	0.127	1-30	0.303	1-30	0.490	1-29	0.710	1-29	1.046	1-28	2.031
MAXIMUMS FOR PERIOD OF RECORD																	
		6-28	0.620	6-28	0.520	6-28	0.820	6-28	1.240	3-4	1.600	1-21	2.410	3-4	2.710	3-4	3.960
		1957		1957		1957		1957		1963		1959		1963		1964	

NOTES: Watershed conditions: Cover of 16% cropland, 59% grassland, 21% woodland, 4% miscellaneous improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 26.32-5 (Revised). For Geology description and map, see foregoing reference, pp. 26.33-1 and 26.37-2. Precipitation data from rain gage 91. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													
COSHOCTON, OHIO WATERSHED 92													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.06	0.0	0.02	0.0	0.35	1.10	0.44	0.64	0.0	0.07	0.26	
2	0.0	0.12	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.34	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.18	0.17	0.0	0.0	0.04	0.39	0.05	0.10	
4	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.54	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.23	0.31	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.19	0.0	
8	0.0	0.0	0.0	0.0	0.05	0.0	0.03	0.51	0.0	0.0	0.05	0.0	
9	0.05	0.10	0.07	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.18	0.20	0.16	0.0	0.0	
11	0.0	0.0	0.0	0.0	1.54	1.64	0.0	0.0	0.20	0.0	0.06	0.0	
12	0.0	0.0	0.95	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.18	0.0	
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.36	0.0	0.0	0.74	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.64	0.0	0.0	0.0	0.52	0.92	0.0	0.0	0.0	0.0	0.42	0.10	
16	0.0	0.0	0.30	0.0	0.23	0.27	1.16	0.0	0.0	0.0	0.48	0.0	
17	0.0	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.0	0.07	0.0	
18	0.0	0.0	0.0	0.0	0.34	0.0	0.20	0.0	0.07	1.00	0.08	0.20	
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.22	0.0	0.05	0.73	
20	0.0	0.06	0.19	0.06	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.65	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.81	0.0	0.0	0.0	0.46	0.0	0.0	0.02	0.0	0.45	
23	0.05	0.0	0.10	0.10	0.90	0.0	0.0	0.0	0.05	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.40	0.05	1.40	0.0	0.03	0.0	0.07	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.47	0.08	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.44	0.17	0.45	0.25	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.41	0.0	1.08	0.0	0.13	0.0	0.0	0.0	0.0	1.05	
28	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.05	0.75	
29	0.27	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.58	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.58	0.34	4.64	1.72	7.00	4.20	4.56	1.44	2.21	2.14	3.13	4.18	
STA AV	2.80	2.49	3.52	3.43	3.71	4.04	4.26	2.86	2.57	2.22	2.56	2.39	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 91. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 92												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.601	9.852	0.257	5.682	0.405	2.999	4.386	0.362	0.148	0.0	0.025	0.616
2	0.572	8.417	0.243	3.309	0.362	2.789	1.328	0.215	0.309	0.0	0.051	0.969
3	0.549	4.778	0.197	2.815	0.423	2.462	0.708	0.143	0.032	0.167	0.044	0.707
4	0.433	3.232	0.190	3.993	0.404	1.830	0.528	0.232	0.019	0.018	0.048	2.723
5	0.312	2.448	0.253	3.538	0.352	1.519	0.427	0.165	0.101	0.010	0.038	1.375
6	0.322	2.012	0.292E	2.635	0.292	1.293	0.384	0.114	0.169	0.031	0.070	1.017
7	0.307	1.729	0.292E	2.285	0.257	1.144	0.294	0.121	0.034	0.062	0.205	0.883
8	0.229	1.630	0.302	1.935	0.245	0.993	0.266	0.252	0.020	0.025	0.116	0.757
9	0.236	1.330	0.398	1.665	0.357	0.829	0.243	0.445	0.019	0.021	0.075	0.570
10	0.264	1.100	0.439	1.488	0.281	0.748	0.209	0.211	0.047	0.039	0.094	0.334
11	0.243	1.003	0.363	1.335	4.777	6.290	0.168	0.134	0.067	0.029	0.124	0.197
12	0.202	0.860	0.801	1.175	2.829	3.309	0.156	0.090	0.042	0.022	0.104	0.204
13	0.216	0.757	0.797	1.050	1.417	1.518	0.139	0.079	0.023	0.021	0.092	0.277
14	0.267	0.720	0.730	2.063	1.432	1.235	0.133	0.073	0.017	0.020	0.061	0.238
15	0.267	0.702	1.222	2.600	2.134	2.629	0.124	0.054	0.013	0.020	0.101	0.159
16	0.236	0.648	3.209	1.554	4.121	3.036	0.648	0.052	0.011	0.016	1.217	0.142
17	0.229	0.523	2.268	1.339	2.165	2.008	0.267	0.052	0.010	0.013	0.443	0.124
18	0.250	0.405	1.780	1.225	2.777	1.586	0.174	0.048	0.009	0.495	0.319	0.134
19	0.282	0.383E	1.595	1.075	2.493	1.306	0.281	0.053	0.029	0.627	0.198	0.857
20	0.302	0.352	1.792	1.000	2.800	1.073	0.107	0.044	0.029	0.075	0.135	0.694
21	0.398	0.332	4.296	0.906	3.424	0.906	0.082	0.022	0.015	0.046	0.105	0.422
22	0.439	0.322E	11.726	0.776	2.936	0.799	0.346	0.020	0.007	0.037	0.093	1.253
23	0.456	0.302	9.280	0.757	7.365	0.671	0.191	0.014	0.017	0.037	0.082	1.426
24	0.385	0.292E	6.343	0.721	12.809	0.592	1.787	0.012	0.025	0.034	0.094	0.810
25	0.292	0.282E	4.760	0.648	6.120	0.992	1.523	0.008	0.015	0.031	0.080	0.575
26	0.272	0.272E	3.948	0.672	5.662	0.866E	0.420	0.005	0.006	0.031	0.068	0.473
27	0.312	0.272	12.669	0.672	25.776	1.225E	0.301	0.008	0.003	0.031	0.065	6.042
28	1.934	0.264	5.302	0.502	9.866	0.556	0.272	0.006	0.001	0.031	2.022	14.957
29	10.790	0.257	4.051	0.450	6.045	0.439	0.166	0.002	0.001	0.029	1.256	4.170
30	27.353E		3.056	0.477	4.428	0.328	0.131	0.001	0.001	0.026	0.690	2.577
31	11.441		4.325		3.121		0.128	0.001		0.025		1.990
MEAN	1.9482	1.5682	2.8121	1.6781	3.8025	1.5990	0.5263	0.0981	0.0414	0.0668	0.2706	1.5380
INCHES	1.562	1.177	2.255	1.302	3.050	1.241	0.422	0.079	0.032	0.054	0.210	1.233
STA AV	1.502	1.683	2.463	1.948	1.223	0.844	0.420	0.177	0.117	0.185	0.365	0.834

NOTES: To convert CFS to IN/DAY, multiply 0.025871. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 94

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 1520.00 acres 2.37 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO		WATERSHED 94				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1968	P	3.59	0.38	4.60	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91	38.46		
	O	1.513	1.197	2.230	1.380	3.053	1.224	0.486	0.121	0.053	0.067	0.180	1.138	12.642		
STA AV	P	2.80	2.49	3.52	3.43	3.71	4.03	4.26	2.86	2.57	2.21	2.55	2.38	36.81		
	O	1.510	1.664	2.481	1.941	1.242	0.891	0.451	0.207	0.137	0.196	0.344	0.802	11.867		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1968	6-11	0.073	5-27	0.066	5-27	0.125	5-27	0.285	1-30	0.434	1-29	0.645	1-29	0.972	5-23	1.943
MAXIMUMS FOR PERIOD OF RECORD																
	6-28 1957	0.920	6-28 1957	0.770	6-28 1957	1.220	6-28 1957	1.790	3-4 1963	2.140	1-21 1959	2.950	1-20 1959	3.270	3-4 1963	3.950

NOTES: Watershed conditions: Cover of 15% cropland, 57% grassland, 24% woodland, 4% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.34-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.34-1 and 26.37-2. Precipitation data from rain gauges 27 and 91. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968	DAILY PRECIPITATION (inches)												COSHOCTON, OHIO WATERSHED 94	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.06	0.0	0.02	0.0	0.36	1.10	0.51	0.75	0.0	0.03	0.27		
2	0.0	0.14	0.0	0.0	0.0	0.07	0.0	0.0	0.10	0.36	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.21	0.13	0.0	0.0	0.06	0.48	0.05	0.10		
4	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.52		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.25	0.30	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.18	0.0		
8	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.45	0.0	0.0	0.04	0.0		
9	0.05	0.12	0.08	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.15	0.20	0.18	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.48	1.59	0.0	0.0	0.17	0.0	0.06	0.0		
12	0.0	0.0	0.86	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.16	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.78	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.51	0.81	0.02	0.0	0.0	0.0	0.42	0.09		
16	0.0	0.0	0.30	0.0	0.24	0.28	0.73	0.0	0.0	0.0	0.45	0.0		
17	0.0	0.0	0.0	0.01	0.06	0.03	0.0	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.31	0.0	0.18	0.0	0.08	1.00	0.09	0.20		
19	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.18	0.0	0.02	0.49		
20	0.0	0.06	0.20	0.04	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.64	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.82	0.0	0.0	0.0	0.45	0.0	0.0	0.02	0.0	0.47		
23	0.05	0.0	0.09	0.11	0.88	0.0	0.0	0.0	0.11	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.39	0.06	1.61	0.0	0.04	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.02	0.45	0.06	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.43	0.15	0.49	0.21	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.37	0.0	1.07	0.0	0.10	0.0	0.0	0.0	0.0	1.02		
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.74		
29	0.25	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.58	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.59	0.38	4.60	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91		
STA AV	2.80	2.49	3.52	3.43	3.71	4.03	4.26	2.86	2.57	2.21	2.55	2.38		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gauges 27 and 91. STA AV based on 30 yr period.

1968	MEAN DAILY DISCHARGE (cfs)					COSHOCTON, OHIO WATERSHED 94							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.955E	15.397	0.501	10.141	0.844	5.433	6.056	0.845	0.215	0.026	0.083	0.642	
2	0.955E	13.786	0.476	5.822	0.760	4.931	2.085	0.502	0.576	0.042	0.104	0.869	
3	0.955	8.115	0.404	4.829	0.875	4.088	1.262	0.366	0.115	0.410	0.108	0.659	
4	0.795E	5.516	0.391	6.879	0.856	3.024	0.977	0.516	0.090	0.098	0.119	3.168	
5	0.575E	4.257	0.507	6.277	0.724	2.431	0.834	0.425	0.241	0.065	0.104	1.577	
6	0.592E	1.595E	0.557E	4.710	0.635	2.060	0.730	0.335	0.344	0.086	0.137	1.008	
7	0.564E	3.180E	0.476	4.040	0.571	1.803	0.622	0.318	0.126	0.165	0.359	0.804	
8	0.448E	2.830E	0.518	3.385	0.564	1.544	0.571	0.413	0.093	0.094	0.241	0.656	
9	0.476E	2.265E	0.733	2.780	0.729	1.328	0.559	0.942E	0.084	0.080	0.166	0.529	
10	0.541	1.840E	0.786	2.505	0.612	1.198	0.476	0.485	0.135	0.117	0.144	0.429E	
11	0.493	1.680E	0.670	2.200	7.307	8.615	0.421	0.358	0.186	0.106	0.135	0.366E	
12	0.415	1.495E	1.370	1.920	5.060	5.696	0.378	0.257	0.140	0.083	0.198	0.454	
13	0.465	1.300E	1.402	1.760	2.251	2.489	0.346	0.227	0.095	0.077	0.198	0.557	
14	0.557	1.130	1.360	3.242	2.391	1.940	0.336	0.213	0.078	0.071	0.150	0.485	
15	0.571	1.050	1.878	4.717	3.532	3.848	0.319	0.175	0.062	0.065	0.216	0.371	
16	0.529	1.025	5.005	2.697	7.014	5.579	1.438	0.169	0.057	0.063	1.327	0.323	
17	0.515	0.853	3.705	2.349	3.937E	3.477	0.740	0.156	0.057	0.057	0.637	0.243	
18	0.515	0.706	2.729	2.150	4.821	2.676	0.420	0.134	0.065	0.361	0.538	0.290	
19	0.543	0.688E	2.435	1.880	4.295	2.174	0.507	0.124	0.089	0.885	0.393	1.648	
20	0.585	0.652	2.808	1.760	4.741	1.749	0.301	0.105	0.095	0.189	0.299	1.179	
21	0.733	0.617	6.930	1.610	5.765	1.455	0.242	0.093	0.063	0.135	0.237	0.809	
22	0.804	0.585E	19.219	1.395	4.947	1.294	0.581	0.085	0.047	0.117	0.210	1.923	
23	0.865	0.603E	15.433	1.430	11.700	1.122	0.464	0.075	0.064	0.112	0.187	2.187	
24	0.781	0.617E	10.301	1.370	20.989	1.008	4.429	0.064	0.071	0.108	0.204	1.255	
25	0.620	0.571E	7.820	1.180	10.523	1.683	2.551	0.054	0.052	0.104	0.179	0.958	
26	0.571	0.543E	6.260	1.150	9.525	1.363	0.911	0.047	0.042	0.096	0.166	0.866	
27	0.603	0.529E	19.716	1.162	40.557	1.666	0.693	0.049	0.035	0.092	0.162	9.066	
28	3.109	0.515	8.864	0.955	16.162	0.997	0.631	0.051	0.032	0.092	2.484	25.696	
29	17.519	0.501	6.660	0.888	9.892	0.814	0.440	0.047	0.031	0.092	1.347	6.691	
30	41.059		5.191	0.919	7.070	0.664	0.381	0.046	0.029	0.087	0.674	4.230	
31	17.901		7.301		5.350		0.367	0.060		0.081		2.710	
MEAN	3.1165	2.6360	4.5938	2.9367	6.2899	2.6049	1.0022	0.2496	0.1138	0.1374	0.3836	2.3436	
INCHES	1.513	1.197	2.230	1.380	3.053	1.224	0.486	0.121	0.053	0.067	0.180	1.138	
STA AV	1.510	1.664	2.481	1.941	1.242	0.891	0.451	0.207	0.137	0.196	0.344	0.802	

NOTES: To convert CFS to IN/DAY, multiply by 0.015659. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 95

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 2570.00 acres 4.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							COSHOCTON, OHIO WATERSHED 95										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	R	3.59	0.38	4.60	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91	38.46			
	O	1.672	1.167	2.262	1.286	2.857	1.014	0.425	0.100	0.039	0.056	0.183	1.145	12.205			
STA AV	P	2.82	2.49	3.52	3.44	3.72	4.07	4.21	2.84	2.55	2.20	2.55	2.38	36.80			
	O	1.486	1.653	2.492	1.957	1.217	0.836	0.420	0.187	0.127	0.186	0.344	0.802	11.707			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
Maximum Discharge Date Rate																	
1 Hour Date Vol.																	
2 Hours Date Vol.																	
Maximum Volume for Selected Time Interval 6 Hours Date Vol.																	
2 Hours Date Vol.																	
1 Day Date Vol.																	
2 Days Date Vol.																	
8 Days Date Vol.																	
1968		1-30	0.071	1-30	0.068	1-30	0.130	1-30	0.299	1-30	0.479	1-29	0.793	1-29	1.139	1-28	2.101
MAXIMUMS FOR PERIOD OF RECORD																	
		6-28	0.610	6-28	0.560	6-28	0.950	3-4	1.580	3-4	2.320	3-4	2.780	3-4	3.490	3-2	4.240
		1957		1957		1957		1963		1963		1963		1963		1963	

NOTES: Watershed conditions: Cover of 15% cropland, 55% grassland, 26% woodland, 4% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.34-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.35-1 and 26.37-2. Precipitation data from rain gauges 27 and 91. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY AIR TEMPERATURE (degrees F)													COSHOCTON, OHIO WATERSHED 95	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	14 -2	55 37	30 19	44 34	63 42	67 52	88 64	76 65	68 58	80 52	75 47	43 25		
2	22 4	52 26	33 13	58 30	69 38	75 59	75 60	80 61	73 56	77 59	64 53	46 40		
3	29 22	31 26	28 6	59 46	75 48	71 56	65 51	79 61	82 54	64 43	53 42	43 39		
4	22 2	39 22	50 18	64 43	60 42	77 53	72 48	76 67	82 62	50 35	58 29	42 31		
5	19 -3	40 26	53 26	43 28	49 36	80 57	77 52	80 65	69 63	56 32	59 43	34 23		
6	24 14	44 24	38 27	51 25	55 34	85 59	74 58	88 72	72 55	50 38	50 46	30 20		
7	14 -6	45 27	45 18	68 35	64 34	84 64	78 54	82 69	74 50	53 47	47 41	25 16		
8	9 -8	33 21	56 26	67 58	74 48	87 68	83 58	82 68	77 54	63 44	41 34	24 17		
9	24 9	28 5	57 44	60 47	64 59	87 64	84 62	84 68	71 59	72 43	34 28	25 13		
10	24 16	12 -1	47 36	62 41	64 52	88 66	80 65	76 58	68 55	64 47	39 26	20 9		
11	22 10	15 1	40 28	57 35	65 51	86 64	85 61	70 54	58 53	62 41	39 32	36 8		
12	28 10	16 9	31 14	71 39	62 54	87 54	85 65	73 50	67 48	72 52	34 31	50 33		
13	30 24	15 5	23 14	76 50	68 50	62 48	87 66	74 57	76 48	75 50	38 25	54 30		
14	32 24	30 8	34 11	72 48	62 54	75 45	82 69	84 66	79 56	77 47	41 24	30 19		
15	31 16	27 15	51 31	49 32	79 59	82 61	80 66	82 62	79 57	76 54	52 41	22 12		
16	19 9	37 13	49 38	62 27	70 54	66 54	80 66	85 70	83 57	76 55	52 41	29 4		
17	30 14	34 9	55 30	67 44	67 46	65 52	83 66	84 68	69 60	80 63	49 45	33 18		
18	40 22	26 8	59 35	67 53	59 45	72 49	87 68	84 65	76 58	68 58	40 31	34 23		
19	35 27	32 8	70 38	69 54	54 41	76 56	78 63	87 68	64 57	63 47	32 24	49 33		
20	38 24	16 3	60 42	65 51	57 39	67 49	77 59	89 73	78 58	62 42	27 24	40 28		
21	37 30	10 -3	50 33	68 54	56 44	77 45	82 59	70 72	84 62	61 38	41 23	30 28		
22	35 30	21 2	31 31	72 51	64 43	80 64	88 66	89 73	84 62	68 41	50 33	47 28		
23	35 13	32 8	31 23	70 50	55 48	81 60	84 62	91 74	78 65	55 37	59 31	45 18		
24	18 8	28 11	37 24	51 34	57 53	88 70	83 68	91 73	82 61	52 40	55 34	18 14		
25	24 3	28 9	54 32	42 34	71 49	77 69	75 67	78 61	70 52	45 36	43 30	16 6		
26	34 10	38 12	63 40	62 34	64 56	72 63	82 62	62 53	69 44	45 31	52 29	24 10		
27	42 28	35 24	73 47	57 39	56 46	67 54	80 64	69 50	70 49	60 36	50 39	49 24		
28	42 38	34 26	70 50	60 39	66 46	63 52	74 60	71 49	67 50	41 35	61 42	54 26		
29	47 41	28 20	74 50	65 43	63 48	83 70	72 54	75 50	68 46	41 33	46 33	26 23		
30	46 33		66 40	58 46	62 52	89 68	76 54	78 51	71 47	49 31	41 27	31 19		
31	44 33		72 40		68 48		80 66	78 55		60 30		37 3		
AV.	29 16	30 13	49 29	61 41	63 47	77 58	79 61	80 62	73 55	61 43	47 34	35 20		
MEAN	22.7	22.2	39.7	51.4	55.2	67.8	70.7	71.6	64.4	52.5	40.9	27.9		
STA AV	33 19	36 20	47 28	58 42	68 49	79 58	81 62	82 61	75 54	67 44	51 33	38 22		

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV is for 30 yr (1939-68) record period.

1968 DAILY PRECIPITATION (inches)												
COSHOCTON, OHIO WATERSHED 95												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.06	0.0	0.02	0.0	0.36	1.10	0.51	0.75	0.0	0.03	0.27
2	0.0	0.14	0.0	0.0	0.0	0.07	0.0	0.0	0.10	0.36	0.0	0.0
3	0.0	0.0	0.0	0.0	0.21	0.13	0.0	0.0	0.06	0.48	0.05	0.10
4	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.52
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.25	0.30	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.18	0.0
8	0.0	0.0	0.0	0.0	0.05	0.0	0.04	0.45	0.0	0.0	0.04	0.0
9	0.05	0.12	0.08	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.15	0.20	0.18	0.0	0.0
11	0.0	0.0	0.0	0.0	1.48	1.59	0.0	0.0	0.17	0.0	0.06	0.0
12	0.0	0.0	0.86	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.16	0.0
13	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.36	0.0	0.0	0.78	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.64	0.0	0.0	0.0	0.51	0.81	0.02	0.0	0.0	0.0	0.42	0.09
16	0.0	0.0	0.30	0.0	0.24	0.28	0.73	0.0	0.0	0.0	0.45	0.0
17	0.0	0.0	0.0	0.01	0.06	0.03	0.0	0.0	0.0	0.0	0.06	0.0
18	0.0	0.0	0.0	0.0	0.31	0.0	0.18	0.0	0.08	1.00	0.09	0.20
19	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.18	0.0	0.02	0.49
20	0.0	0.06	0.20	0.04	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.64	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.82	0.0	0.0	0.0	0.45	0.0	0.0	0.02	0.0	0.47
23	0.05	0.0	0.09	0.11	0.88	0.0	0.0	0.0	0.11	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.39	0.06	1.61	0.0	0.04	0.0	0.06	0.0
25	0.0	0.0	0.0	0.0	0.02	0.45	0.06	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.43	0.15	0.49	0.21	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.37	0.0	1.07	0.0	0.10	0.0	0.0	0.0	0.0	1.02
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.74
29	0.25	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.58	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.59	0.38	4.60	1.70	6.92	4.00	4.30	1.43	2.32	2.29	2.98	3.91
STA AV	2.82	2.49	3.52	3.44	3.72	4.07	4.21	2.84	2.55	2.20	2.55	2.38

NOTES: Precipitation amounts are for rain gauges 27 and 91. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs)												
COSHOCTON, OHIO WATERSHED 95												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.600	25.874	0.770	15.861	1.210	7.678	8.768	1.246	0.299	0.014	0.100	0.965E
2	1.565E	23.631	0.736	9.439	1.095	7.290	3.060	0.694	0.841	0.019	0.128	1.386E
3	1.465	13.142	0.667	7.775	1.298	5.972	1.737	0.506	0.152	0.694	0.148	1.007E
4	1.107	8.777	0.667	10.829E	1.257	4.375	1.322	1.042	0.091	0.149	0.159	5.334
5	0.836	6.653	0.824	9.640	1.070	1.411	1.127	0.743	0.335	0.078	0.141	2.434
6	0.979	5.612	0.858E	7.195	0.924	2.814	0.969	0.469	0.507	0.122	0.186	1.360
7	0.935	5.052E	0.736E	6.085	0.836	2.551	0.817	0.451	0.155	0.273	0.490	1.015
8	0.753E	4.170E	0.846	5.105	0.817	2.209	0.733	0.518	0.099	0.129	0.380	0.880
9	0.753E	3.290E	1.225	4.255	1.013	1.861	0.721	1.272	0.078	0.089	0.258	0.701
10	0.814	2.610E	1.335	3.794	0.886	1.650	0.627	0.682	0.170	0.152	0.212	0.565
11	0.814	2.400E	1.125	3.450	10.750	11.336	0.561	0.521	0.260	0.119	0.182	0.523
12	0.770	2.250E	2.281	2.999	7.998	8.172	0.503	0.366	0.181	0.089	0.291	0.642
13	0.814	2.105E	3.247	2.738	3.631	3.387	0.467	0.321	0.097	0.080	0.295	0.797
14	0.924	1.930	3.025	5.192E	3.513	2.610	0.454	0.303	0.074	0.074	0.235	0.690
15	0.924	1.765	3.682	8.065	5.311	4.755	0.438	0.238	0.059	0.066	0.323	0.523
16	0.836	1.680	10.069	4.420	11.103	8.038	1.570	0.229	0.047	0.058	2.078	0.498
17	0.792	1.360	7.812	3.865	6.035	4.820	0.826	0.214	0.037	0.056	1.014	0.451
18	0.792	1.015	5.561	3.390	7.185	3.653	0.537	0.162	0.040	0.575	0.843	0.501
19	0.858	1.160	4.748	2.945	6.341	3.087	0.684	0.151	0.098	1.394	0.616	2.067
20	0.903	1.430	5.083	2.830	7.312	2.561	0.382	0.115	0.119	0.310	0.467	1.962
21	1.151	1.530E	12.049	2.615	8.852	2.169	0.311	0.088	0.064	0.184	0.394	1.275
22	1.330	1.465E	35.063	2.250	7.888	1.950	0.724	0.091	0.045	0.158	0.341	3.050E
23	1.260	1.330E	28.437	2.250	18.436	1.699	0.623	0.074	0.074	0.157	0.313	4.312E
24	1.291	1.205E	16.762	2.125	15.247	1.516	9.761	0.059	0.079	0.141	0.340	2.436
25	1.041	1.095E	12.512	1.805	16.425	2.365	3.553	0.043	0.055	0.141	0.306	1.580
26	0.852	0.993E	9.834	1.796	13.598	2.017	1.268	0.028	0.043	0.131	0.276	1.400
27	0.924	0.902E	32.598	1.965	68.843	2.231	0.940	0.033	0.031	0.126	0.251	15.604
28	5.784	0.836E	14.023	1.465	26.131	1.339	0.837	0.027	0.022	0.126	4.472	45.552
29	43.089	0.792	10.177	1.365	14.969	1.090	0.606	0.024	0.016	0.116	3.191	11.687
30	74.942	7.770	1.372	10.579	0.875	0.503	0.020	0.015	0.015	0.105	1.287E	7.225
31	29.690	9.700	7.000	7.914	7.914	0.492	0.016	0.016	0.016	0.089	0.467	5.257
MEAN	5.8254	4.3467	7.8780	4.6293	9.9506	3.6493	1.4814	0.3468	0.1396	0.1941	0.6574	3.9866
INCHES	1.672	1.167	2.262	1.286	2.857	1.014	0.425	0.100	0.039	0.056	0.183	1.145
STA AV	1.486	1.653	2.492	1.957	1.217	0.836	0.420	0.187	0.127	0.186	0.344	0.802

NOTES: To convert CFS to IN/DAY, multiply by 0.0092613. STA AV based on 30 yr period.

COSHOCTON, OHIO WATERSHED 97

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Little Mill Creek, Walhonding River, Muskingum River Basin.

AREA: 4580.00 acres 7.16 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													COSHOCTON, OHIO WATERSHED 97	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 3.61	0.38	4.55	1.71	6.62	3.45	3.94	1.40	2.35	2.23	2.81	3.60	36.68	
	O 1.681	1.056	2.150	1.159	2.647	0.787	0.321	0.073	0.031	0.046	0.140	1.099	11.190	
STA AV	P 2.99	2.42	3.52	3.46	3.76	4.16	4.23	2.80	2.51	2.19	2.49	2.36	36.90	
	O 1.738	1.622	2.460	2.003	1.226	0.916	0.465	0.206	0.127	0.166	0.338	0.829	12.091	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	1-30	0.075	1-30	0.074	1-30	0.144	1-30	0.326	1-30	0.513	1-29	0.806	1-29	1.175
													1-28	2.104
MAXIMUMS FOR PERIOD OF RECORD														
	6-28	0.720	6-28	0.660	6-28	1.150	1-24	1.890	1-21	2.320	1-21	3.240	1-20	3.540
	1957		1957		1957		1937		1959		1959		1959	1937

NOTES: Watershed conditions: Cover of 18% cropland, 50% grassland, 28% woodland, 4% miscellaneous, improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.34-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.36-1 and 26.37-2. Precipitation data from rain gauges 27, 54, 56 and 91. Precipitation and runoff records began Jan. 1937. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 97	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.04	0.0	0.02	0.0	0.35	1.00	0.50	0.79	0.0	0.02	0.25		
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.11	0.37	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.22	0.11	0.0	0.0	0.07	0.45	0.05	0.09		
4	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.52		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.25	0.26	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.17	0.0		
8	0.0	0.0	0.0	0.0	0.02	0.0	0.05	0.39	0.0	0.0	0.04	0.0		
9	0.04	0.11	0.07	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.13	0.20	0.18	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.42	1.24	0.0	0.0	0.13	0.0	0.06	0.0		
12	0.0	0.02	0.91	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.79	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.8	0.0	0.0	0.55	0.62	0.01	0.0	0.0	0.0	0.41	0.09		
16	0.0	0.0	0.28	0.0	0.22	0.28	0.37	0.0	0.0	0.0	0.43	0.0		
17	0.0	0.0	0.0	0.02	0.07	0.04	0.04	0.0	0.0	0.0	0.06	0.0		
18	0.0	0.0	0.0	0.0	0.28	0.0	0.17	0.0	0.09	0.96	0.10	0.17		
19	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.14	0.0	0.03	0.36		
20	0.0	0.07	0.21	0.07	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.65	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.84	0.0	0.0	0.11	0.26	0.0	0.0	0.02	0.0	0.45		
23	0.05	0.0	0.08	0.11	0.87	0.0	0.0	0.0	0.19	0.0	0.0	0.0		
24	0.0	0.0	0.0	8.0	0.39	0.03	1.76	0.0	0.02	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.01	0.41	0.03	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.42	0.15	0.46	0.20	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.30	0.0	1.04	0.0	0.15	0.0	0.0	0.0	0.0	0.98		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.69		
29	0.25	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.59	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.75		0.0		0.0	0.0		0.0		0.0		
TOTAL	3.61	0.38	4.55	1.71	6.62	3.45	3.94	1.40	2.35	2.23	2.81	3.60		
STA AV	2.99	2.42	3.52	3.46	3.76	4.16	4.23	2.80	2.51	2.19	2.49	2.36		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gauges 27, 54, 56 and 91. STA AV based on 32 yr period.

COSHOCTON, OHIO WATERFRED 97												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.80	44.73	1.28	30.93	2.04	11.79	11.33	1.63	0.13	0.03	0.16	1.62
2	2.69	42.73	1.22	15.91	1.83	11.24	4.79	1.03	1.35	0.04	0.16	2.31
3	2.49	22.75	1.07	11.99	2.09	8.73	2.55	0.70	0.28	0.94	0.20	1.73
4	1.97	13.54	1.14	16.73	2.21	6.74	1.86	1.02	0.14	0.30	0.22	7.98
5	1.51	9.89E	1.48	14.38	1.73	5.59	1.54	0.90	0.39	0.12	0.21	4.29
6	1.58	8.18E	1.61E	10.35	1.55	4.76	1.32	0.68	0.74	0.13	0.24	2.45
7	1.48	7.65E	1.54E	8.87	1.40	4.21	1.12	0.65	0.26	0.41	0.64	1.76
8	1.16	6.55E	1.54E	7.78	1.37	3.63	1.04	0.72	0.14	0.23	0.56	1.58
9	1.22	5.48E	2.02	6.46	1.69	3.10	1.01	1.60	0.10	0.15	0.36	1.27
10	1.40	4.37E	2.30	5.87	1.50	2.75	0.87	0.93	0.20	0.20	0.30	1.02
11	1.31	3.64E	1.90	5.38	17.17	12.79	0.79	0.75	0.37	0.22	0.27	0.82
12	1.21	3.38E	3.50	4.70	14.38E	10.72	0.70	0.50	0.26	0.15	0.38	1.17
13	1.24	3.02E	4.52	4.28	5.63E	4.68	0.66	0.42	0.15	0.12	0.44	1.48
14	1.41	2.91	4.67	7.55	5.41E	3.73	0.63	0.41	0.11	0.11	0.32	1.28
15	1.51	2.86	5.40	14.15	7.94E	4.10	0.61	0.32	0.08	0.10	0.41	0.95
16	1.40	2.69	17.07	7.07	18.16	11.69	1.52	0.29	0.07	0.09	3.14	0.90
17	1.34	2.23	12.33	5.91	9.08	6.24	1.14	0.29	0.06	0.08	1.71	0.81
18	1.34	1.76	8.60	5.44	10.32	4.90	0.68	0.22	0.06	0.54	1.41	0.86
19	1.37	1.65E	7.28	4.66	8.99	3.90	0.82	0.19	0.09	2.16	1.05	3.19
20	1.44	1.51E	7.88	4.43	9.63	2.99	0.47	0.15	0.17	0.50	0.74	3.42
21	1.84	1.44	20.88	4.14	12.02	2.68	0.38	0.12	0.10	0.31	0.56	2.34
22	2.07	1.34	64.98	3.51	10.51	2.61	0.58	0.11	0.07	0.25	0.53	4.65
23	2.38	1.34	51.88	3.43	27.60	2.22	0.85	0.09	0.13	0.74	0.49	6.95
24	2.02	1.27	28.27	3.40	59.97	1.93	12.21	0.07	0.13	0.22	0.52	3.61
25	1.55	1.15	19.95	2.97	27.01	2.94	5.54	0.06	0.09	0.21	0.50	2.72
26	1.30	1.15	15.23	2.92	21.81	2.88	1.92	0.05	0.07	0.21	0.42	2.35
27	1.44	1.24	53.37	3.01	125.69	3.13	1.31	0.05	0.05	0.19	0.40	24.12
28	9.85	1.37	23.86	2.38	46.39	1.88	1.26	0.04	0.04	0.18	4.91	85.95
29	75.38E	1.34	16.59	2.22	25.31	1.56	0.85	0.04	0.04	0.18	3.92	19.61
30	142.01E		12.03	2.27	16.85	1.27	0.70	0.04	0.03	0.17	1.74	10.66
31	51.82		18.26		11.98		0.66	0.03		0.16		7.70
MEAN	10.436	7.006	13.343	7.436	16.428	5.045	1.991	0.455	0.197	0.288	0.897	6.824
INCHES	1.681	1.056	2.150	1.154	2.647	0.787	0.321	0.073	0.031	0.046	0.140	1.099
STA AV	1.738	1.622	2.460	2.003	1.226	0.916	0.465	0.206	0.127	0.166	0.334	0.829

NOTES: To convert CFS to IN/DAY, multiply by 0.0051969. STA AV based on 32 yr period.

COSHOCKTON, OHIO WATERSHED 174

LOCATION: Coshockton Co., Ohio; 10 mi. NE of Coshockton; Tuscarawas River, Muskingum River Basin.

AREA: 52.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO		WATERSHED 174	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	14.31			
	D	1.836	0.815	2.108	0.663	2.019	0.268	0.182	0.009	0.001	0.029	0.095	1.001	9.026			
STA AV	P	2.34	2.27	3.98	3.41	3.22	2.73	3.49	2.72	2.45	1.68	2.54	2.26	33.09			
	D	0.746	1.143	2.635	1.509	0.725	0.305	0.109	0.090	0.053	0.074	0.153	0.396	7.938			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		7-24	0.132	5-27	0.093	5-27	0.166	1-30	0.370	1-30	0.603	1-29	0.922	1-29	1.328		

NOTES: Watershed conditions: Cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, prevailing practice on 86% of the area. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.38-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see U.S. Weather Bureau records at Coshockton, Ohio.

1968	DAILY PRECIPITATION (inches)						COSHOCTON, OHIO WATERSHED 174							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.23		
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.11		
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.48		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0		
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0		
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.38	0.12		
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0		
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0		
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.16		
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.21		
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.40		
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.0	0.33	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.93		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.62		
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.79		0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.76		0.0		0.0	0.0		0.0		0.0		
TOTAL	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26		
STA AV	2.34	2.27	3.98	3.41	3.22	2.73	3.49	2.72	2.45	1.68	2.54	2.26		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-95, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 8-9 yr period.

1968 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 174												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.017	0.541	0.003	0.259	0.005	0.112	0.076	0.010	0.001	0.0	0.0	0.009
2	0.013	0.487	0.003	0.116	0.004	0.073	0.005	0.001	0.0 T	0.0 T	0.0 T	0.012
3	0.010	0.192	0.002	0.088	0.006	0.050	0.003	0.0	0.0	0.009	0.001	0.006
4	0.008	0.131	0.002	0.179	0.005	0.032	0.002	0.001	0.0	0.001	0.001	0.129
5	0.007	0.088	0.003	0.090	0.004	0.024	0.001	0.001	0.001	0.0	0.0 T	0.020
6	0.006	0.064	0.003	0.064	0.003	0.019	0.001	0.0	0.001	0.001	0.0	0.013
7	0.005	0.047	0.003	0.050	0.003	0.017	0.0 T	0.001	0.0	0.0 T	0.002	0.008
8	0.005	0.036	0.004	0.042	0.003	0.015	0.0 T	0.002	0.0	0.0	0.002	0.007
9	0.005	0.010	0.008	0.036	0.004	0.013	0.0 T	0.002	0.0	0.0	0.002	0.007
10	0.005	0.024	0.010	0.034	0.003	0.011	0.0	0.002	0.0	0.001	0.002	0.005
11	0.005	0.019	0.008	0.030	0.180	0.086	0.0	0.0	0.0	0.0	0.002	0.003
12	0.005	0.017	0.061	0.024	0.061	0.050	0.0	0.0	0.0	0.0	0.002	0.004
13	0.005	0.017	0.040	0.021	0.020	0.008	0.0	0.0	0.0	0.0	0.001	0.005
14	0.005	0.015	0.036	0.108	0.029	0.006	0.0	0.0	0.0	0.0	0.0	0.004
15	0.005	0.011	0.069	0.086	0.165	0.006	0.0	0.0	0.0	0.0	0.004	0.003
16	0.005	0.010	0.228	0.041	0.134	0.018	0.0	0.0	0.0	0.0	0.036	0.003
17	0.005	0.008	0.097	0.030	0.038	0.008	0.0	0.0	0.0	0.0	0.007	0.003
18	0.005	0.007	0.068	0.024	0.054	0.005	0.0	0.0	0.0	0.029	0.007	0.004
19	0.005	0.007	0.056	0.019	0.056	0.003	0.0	0.0	0.0	0.013	0.003	0.042
20	0.006	0.010	0.069	0.019	0.063	0.002	0.0	0.0	0.0	0.001	0.002	0.024
21	0.017	0.011	0.354	0.017	0.071	0.002	0.0	0.0	0.0	0.001	0.001	0.008
22	0.022	0.008	1.040	0.013	0.047	0.007	0.0	0.0	0.0	0.0 T	0.001	0.090
23	0.027	0.005	0.444	0.015	0.387	0.003	0.0	0.0	0.0	0.0	0.001	0.056
24	0.022	0.005	0.274	0.013	0.689	0.001	0.297	0.0	0.0	0.0 T	0.002	0.015
25	0.015	0.004	0.163	0.010	0.157	0.008	0.011	0.0	0.0	0.001	0.002	0.010
26	0.010	0.003	0.188	0.011	0.183	0.006	0.001	0.0	0.0	0.001	0.002	0.007
27	0.009	0.003	0.684	0.010	1.473	0.005	0.005	0.0	0.0	0.001	0.001	0.525
28	0.248	0.003	0.180	0.007	0.288	0.002	0.002	0.0	0.0	0.001	0.105	0.989
29	1.052	0.003	0.126	0.007	0.163	0.001	0.0	0.0	0.0	0.002	0.016	0.102
30	1.894		0.080	0.006	0.112	0.0 T	0.0	0.0	0.0	0.002	0.005	0.059
31	0.622		0.371		0.070		0.0	0.0		0.0 T		0.047
MEAN	0.1114	0.0623	0.1509	0.0490	0.1445	0.0198	0.0130	0.0006	0.0001	0.0021	0.0070	0.0716
INCHES	1.836	0.815	2.108	0.663	2.019	0.268	0.182	0.009	0.001	0.029	0.095	1.001
STA AV	0.746	1.143	2.635	1.509	0.725	0.305	0.109	0.090	0.053	0.074	0.153	0.396

NOTES: To convert CPS to IN/DAY, multiply by 0.45079. STA AV based on 8-9 yr period.

COSHOCKTON, OHIO WATERSHED 194

LOCATION: Coshockton Co., Ohio 10 mi. NE of Coshockton; Tuscarawas River, Muskingum River Basin.

AREA: 187.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO		WATERSHED 194	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	34.31			
	O	2.068	1.344	2.760	1.439	2.994	0.863	0.424	0.113	0.071	0.123	0.267	1.509	13.974			
STA AV	P	2.40	2.37	3.64	3.20	3.19	2.73	3.49	2.72	2.45	1.68	2.54	2.26	32.67			
	O	1.225	1.652	3.516	2.240	1.408	0.603	0.225	0.128	0.106	0.156	0.287	0.692	12.237			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date Rate				Maximum Volume for Selected Time Interval											
		1 Hour Date Vol.		2 Hours Date Vol.		6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.			
1968		7-24	0.278	7-24	0.135	5-27	0.168	5-27	0.361	1-30	0.569	1-29	0.859	1-29	1.263	1-28	2.447
MAXIMUMS FOR PERIOD OF RECORD																	
		4-25	0.870	4-25	0.680	4-25	0.930	4-25	1.120	3- 9	1.320	3- 9	1.910	3- 9	2.600	3- 4	3.890
		1961		1961		1961		1961		1964		1964		1964		1964	

NOTES: Watershed conditions: Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneous, prevailing practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.39-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Jan. 1960. For long-time precipitation records, see U.S. Weather Bureau records at Coshockton, Ohio.

1968 DAILY PRECIPITATION (inches)													
COSHOCKTON, OHIO WATERSHED 194													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.02	0.0	0.04	0.0	0.40	0.95	0.50	0.64	0.0	0.0	0.0	0.23
2	0.0	0.13	0.0	0.0	0.0	0.05	0.0	0.0	0.06	0.28	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.21	0.10	0.0	0.0	0.05	0.46	0.06	0.11	0.0
4	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.48	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0
6	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.29	0.20	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.20	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.24	0.0	0.0	0.03	0.0	0.0
9	0.03	0.10	0.06	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.10	0.08	0.18	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	1.28	1.07	0.0	0.0	0.08	0.0	0.06	0.0	0.0
12	0.0	0.0	0.80	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.11	0.0	0.0
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.36	0.0	0.0	0.72	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.64	0.0	0.0	0.0	0.54	0.25	0.13	0.0	0.0	0.0	0.18	0.12	0.0
16	0.0	0.0	0.29	0.0	0.18	0.25	0.03	0.0	0.0	0.0	0.42	0.0	0.0
17	0.0	0.0	0.0	0.02	0.07	0.05	0.0	0.0	0.0	0.0	0.05	0.0	0.0
18	0.0	0.0	0.0	0.0	0.23	0.0	0.06	0.0	0.10	0.95	0.10	0.16	0.0
19	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.20	0.0	0.0	0.21	0.0
20	0.0	0.05	0.21	0.05	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.68	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.71	0.0	0.0	0.25	0.03	0.0	0.0	0.02	0.0	0.40	0.0
23	0.05	0.0	0.12	0.17	0.80	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.36	0.0	2.35	0.0	0.08	0.0	0.05	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.02	0.0	0.0	0.0
26	0.0	0.0	0.34	0.16	0.47	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.34	0.0	0.98	0.0	0.30	0.0	0.0	0.0	0.0	0.93	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.79	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.57	0.30	4.40	1.65	6.17	2.82	4.00	1.20	2.16	2.20	2.58	3.26	
STA AV	2.40	2.37	3.64	3.20	3.19	2.73	3.49	2.72	2.45	1.68	2.54	2.26	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-97, p. 26.035-1. Precipitation amounts are for rain gage 107. STA AV based on 9 yr period.

COSHOCTON, OHIO WATERSHED 194												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.164	2.212	0.072	1.339	0.112	0.759	0.342	0.113	0.048	0.012	0.021	0.124
2	0.152	1.905	0.072	0.756	0.103	0.629	0.090	0.035	0.034	0.017	0.021	0.133
3	0.141	1.025	0.072E	0.622	0.119	0.491	0.059	0.028	0.021	0.102	0.021	0.092
4	0.141	0.730	0.072E	0.995	0.121	0.359	0.048	0.059	0.015	0.012	0.021	0.899E
5	0.141	0.570	0.079	0.682	0.112	0.309	0.043	0.037	0.030	0.010	0.021	0.234
6	0.141	0.458	0.079	0.522	0.103	0.274	0.042	0.032	0.031	0.027	0.029	0.142
7	0.122	0.378	0.065	0.458	0.103	0.258	0.041	0.035	0.015	0.026	0.044	0.112
8	0.103	0.322	0.072	0.397	0.103	0.241	0.055	0.049	0.015	0.012	0.028	0.094
9	0.103	0.274	0.111	0.341	0.112	0.223	0.044	0.044	0.015	0.010	0.028	0.079
10	0.103	0.258	0.131	0.305	0.103	0.202	0.037	0.054	0.015	0.027	0.024	0.057
11	0.103	0.211	0.112	0.289	0.894	0.498	0.037	0.033	0.015	0.015	0.021	0.052
12	0.112	0.188	0.286	0.258	0.455	0.343	0.037	0.024	0.012	0.015	0.031	0.065
13	0.112	0.169	0.262	0.229	0.215	0.188	0.037	0.021	0.010	0.015	0.024	0.072
14	0.094	0.164	0.221	0.621	0.283	0.176	0.037	0.021	0.010	0.015	0.021	0.065
15	0.086	0.164	0.386	0.598	0.619	0.164	0.037	0.021	0.010	0.015	0.055	0.111
16	0.074	0.152	1.037	0.337	0.793	0.217	0.037	0.021	0.010	0.015	0.220	0.111
17	0.072	0.131	0.623	0.289	0.350	0.164	0.037	0.021	0.010	0.018	0.075	0.052
18	0.072	0.121E	0.447	0.258	0.412	0.142	0.037	0.021	0.015	0.269	0.096	0.052
19	0.079	0.121E	0.397	0.229	0.419	0.116	0.032	0.021	0.025	0.073	0.052	0.215
20	0.086	0.121E	0.454E	0.215	0.467	0.106	0.028	0.021	0.018	0.024	0.042	0.168
21	0.113	0.121E	1.360E	0.201	0.524	0.096	0.028	0.021	0.015	0.021	0.037	0.112
22	0.131	0.121	3.820E	0.176	0.421	0.135	0.028	0.021	0.015	0.021	0.037	0.389
23	0.140	0.121	2.077E	0.181	1.536	0.100	0.028	0.021	0.030	0.021	0.037	0.328
24	0.121	0.094	1.282E	0.164	2.999	0.086	1.519	0.021	0.021	0.021	0.037	0.189
25	0.103	0.072	0.945	0.141	1.068	0.122	0.198	0.018	0.015	0.021	0.032	0.164
26	0.086	0.079	0.990	0.153	1.043	0.099	0.062	0.015	0.018	0.021	0.028	0.164
27	0.086	0.086	2.510	0.164	5.734	0.102	0.096	0.012	0.018	0.021	0.028	1.735
28	0.860	0.086	0.967	0.131	1.729	0.072	0.116	0.010	0.015	0.021	0.696	3.916
29	3.307	0.079	0.814	0.121	1.065	0.060	0.040	0.010	0.018	0.024	0.180	0.942
30	6.485		0.602	0.124	0.805	0.048	0.032	0.010	0.018	0.021	0.087	0.600
31	2.611		1.266		0.599		0.028	0.012		0.021		0.387
MEAN	0.5242	0.1641	0.6995	0.3767	0.7587	0.2259	0.1075	0.0286	0.0185	0.0311	0.0699	0.3825
INCHES	3.068	1.344	2.760	1.439	2.994	0.863	0.424	0.111	0.071	0.123	0.267	1.509
STA AV	1.225	1.652	3.516	2.240	1.408	0.603	0.225	0.128	0.106	0.156	0.287	0.692

NOTES: To convert CFS to IN/DAY, multiply by 0.12728. STA AV based on 9 yr period.

COSHOCTON, OHIO WATERSHED 182

LOCATION: Tuscarawas River, Muskingum River Basin.

AREA: 69.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 182								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	3.65	0.33	4.52	1.68	6.39	2.72	4.02	1.32	2.03	2.34	2.72	3.53	35.25		
	O	1.786	0.974	2.332	1.059	2.420	0.520	0.216	0.017	0.000	0.004	0.044	0.834	10.207		
STA AV	P	2.66	2.05	4.11	3.48	3.71	2.10	3.85	2.54	2.86	1.75	2.78	2.74	34.63		
	O	0.933	1.251	2.946	1.764	1.396	0.176	0.115	0.019	0.016	0.065	0.105	0.663	9.449		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	7-24	0.239	7-24	0.106	1-30	0.139	1-30	0.310	1-30	0.515	1-29	0.799	1-29	1.188	1-28	2.144
MAXIMUMS FOR PERIOD OF RECORD																
	7-24	0.239	3-10	0.170	3-10	0.320	3- 9	0.850	3- 9	1.350	3- 9	1.980	3- 9	2.640	3- 4	3.960
	1968		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Cover of 3% hardwoods, 9% pastured woodland, 5% reforested, 49% grassland, 34% cultivated, prevailing practice except for 10% of area which was strip cropped. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 26.40-2. Gage for Watershed 182 is 400 ft. upstream from that of Watershed 183 (26.029), which was discontinued after 1963. For information for Watershed 183, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164 and earlier publications of this series. For Geology description, see foregoing reference, p. 26.40-1. Precipitation data from rain gage 119. Precipitation and runoff record began January, 1964. For long-time precipitation records, see U.S. Weather Bureau records at Coshocton, Ohio.

1968 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 182	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.04	0.0	0.04	0.0	0.38	0.67	0.51	0.52	0.0	0.0	0.27		
2	0.0	0.11	0.0	0.0	0.0	0.05	0.0	0.0	0.08	0.39	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.10	0.09	0.0	0.0	0.02	0.51	0.05	0.08		
4	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.52		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0		
6	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.26	0.20	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.20	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.24	0.0	0.0	0.03	0.0		
9	0.05	0.10	0.06	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.20	0.10	0.20	0.0	0.0		
11	0.0	0.0	0.0	0.0	1.33	0.85	0.0	0.0	0.19	0.0	0.05	0.0		
12	0.0	0.0	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0		
13	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.36	0.0	0.0	0.73	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.64	0.0	0.0	0.0	0.50	0.15	0.03	0.0	0.0	0.0	0.40	0.08		
16	0.0	0.0	0.30	0.0	0.26	0.20	0.06	0.0	0.0	0.0	0.45	0.0		
17	0.0	0.0	0.0	0.02	0.10	0.05	0.0	0.0	0.0	0.0	0.94	0.0		
18	0.0	0.0	0.0	0.0	0.20	0.0	0.07	0.0	0.10	0.94	0.11	0.20		
19	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.26	0.0	0.0	0.24		
20	0.0	0.08	0.24	0.05	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.72	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.0	0.86	0.0	0.05	0.29	0.03	0.0	0.0	0.02	0.0	0.45		
23	0.05	0.0	0.09	0.18	0.95	0.0	0.0	0.0	0.25	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.47	0.0	2.45	0.0	0.05	0.0	0.06	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.35	0.04	0.0	0.0	0.02	0.0	0.0		
26	0.0	0.0	0.36	0.17	0.41	0.31	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.28	0.0	0.94	0.0	0.42	0.0	0.0	0.0	0.0	1.02		
28	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.67		
29	0.24	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.61	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.65	0.33	4.52	1.68	6.39	2.72	4.02	1.32	2.03	2.34	2.72	3.53		
STA AV	2.66	2.05	4.11	3.48	3.71	2.10	3.85	2.54	2.86	1.75	2.78	2.74		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-97, p. 26.035-1. Precipitation amounts are for rain gage 119. STA AV based on 5 yr period.

COSHOCTON, OHIO WATERSHED 182												
1968 MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.027	0.580	0.010	0.386	0.024	0.244	0.057	0.018	0.0	0.0	0.0	0.007
2	0.024	0.532	0.010	0.191	0.021	0.212	0.015	0.003	0.0	0.0	0.0	0.010
3	0.021	0.310	0.008	0.171	0.022	0.147	0.007	0.002	0.0	0.0	0.0	0.006
4	0.021	0.223	0.008	0.292	0.019	0.106	0.004	0.007	0.0	0.0	0.0	0.113
5	0.019	0.179	0.011	0.197	0.017	0.083	0.003	0.003	0.0	0.0	0.0	0.018
6	0.019	0.155	0.011	0.147	0.015	0.064	0.002	0.001	0.001	0.0	0.0 T	0.007
7	0.015	0.131	0.010	0.123	0.013	0.050	0.002	0.0 T	0.0	0.0	0.002	0.004
8	0.011	0.105	0.013	0.105	0.015	0.041	0.007	0.002F	0.0	0.0	0.0 T	0.002
9	0.012	0.098	0.031	0.094	0.011	0.034	0.005	0.001E	0.0	0.0	0.0	0.001
10	0.015	0.069	0.039	0.092	0.011	0.029	0.004	0.002E	0.0	0.0	0.0	0.0 T
11	0.015	0.055	0.030	0.083	0.254	0.130	0.003	0.0 T	0.0	0.0	0.0	0.001
12	0.015	0.050	0.084	0.068	0.115	0.080	0.002	0.0	0.0	0.0	0.0	0.003
13	0.015	0.046	0.074	0.059	0.049	0.028	0.002	0.0	0.0	0.0	0.0	0.003
14	0.015	0.039	0.061	0.154	0.073	0.024	0.002	0.001	0.0	0.0	0.0	0.001
15	0.015	0.033	0.126	0.193	0.166	0.021	0.003	0.001	0.0	0.0	0.002	0.0 T
16	0.013	0.033	0.294	0.094	0.293	0.030	0.003	0.002	0.0	0.0	0.018	0.001
17	0.013	0.013	0.171	0.078	0.110	0.021	0.002	0.002	0.0	0.0	0.004	0.001
18	0.013	0.025	0.118	0.068	0.140	0.020	0.001	0.002	0.0	0.007	0.005	0.001
19	0.015	0.019	0.108	0.059	0.132	0.014	0.001	0.002	0.0	0.004	0.001	0.033
20	0.017	0.021	0.134	0.055	0.146	0.010	0.001	0.001	0.0	0.0	0.0	0.021
21	0.040	0.017	0.459	0.050	0.167	0.009	0.0 T	0.0	0.0	0.0	0.0	0.008
22	0.055	0.015	1.229	0.042	0.114	0.026	0.0	0.0	0.0	0.0	0.0	0.081
23	0.067	0.015	0.748	0.049	0.534	0.010	0.0 T	0.0	0.0	0.0	0.0	0.059
24	0.051	0.013	0.475	0.047	0.938	0.007	0.432	0.0	0.0	0.0	0.0	0.017
25	0.033	0.011	0.305	0.036	0.352	0.028	0.036	0.0	0.0	0.0	0.0	0.010
26	0.024	0.011	0.312	0.037	0.345	0.020	0.004	0.0	0.0	0.0	0.0	0.010
27	0.021	0.013	0.864	0.039	1.629	0.016	0.022	0.0	0.0	0.0	0.0	0.446
28	0.404	0.013	0.304	0.030	0.553	0.007	0.007	0.0	0.0	0.0	0.074	1.077
29	1.298	0.011	0.253	0.027	0.350	0.005	0.002	0.0	0.0	0.0	0.017	0.211
30	2.155		0.206	0.027	0.248	0.004	0.002	0.0	0.0	0.0	0.004	0.163
31	0.740		0.312		0.188		0.002	0.0		0.0		0.120
MEAN	0.1684	0.0982	0.2200	0.1032	0.2283	0.0507	0.0204	0.0016	0.0	0.0004	0.0043	0.0787
INCHES	1.786	0.974	2.332	1.059	2.420	0.520	0.216	0.017	0.000	0.004	0.044	0.834
STA AV	0.933	1.251	2.946	1.764	1.396	0.176	0.115	0.019	0.016	0.065	0.105	0.663

NOTES: To convert CFS to IN/DAY, multiply by 0.34198. STA AV based on 5 yr period.

STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River.

AREA: 16.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-1													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	1.33	0.48	2.47	4.44	6.87	3.33	0.77	2.93	1.70	2.08	5.65	1.29	33.34													
	O	0.384	0.005	1.437	2.225	3.690	0.022	0.0	0.0	0.653	0.498	8.914															
STA AV	P	0.62	1.01	1.91	2.31	5.14	3.86	4.23	2.90	3.44	2.42	1.66	1.10	30.60													
	O	0.126	0.201	0.694	0.680	1.802	0.930	0.666	0.072	0.409	0.627	0.399	0.204	6.810													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume Date	For Selected Time Interval	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.										
1968		4-3	1.367	4-3	0.936	4-3	1.248	5-24	1.634	5-24	2.073	5-24	2.148	5-24	2.158	5-18	2.169										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-18	6.990	7-15	3.314	7-15	3.737	7-15	3.963	10-2	4.519	7-4	5.185	10-1	5.679	9-29	7.627										
		1957		1951		1951		1951		1959		1951		1959		1959											

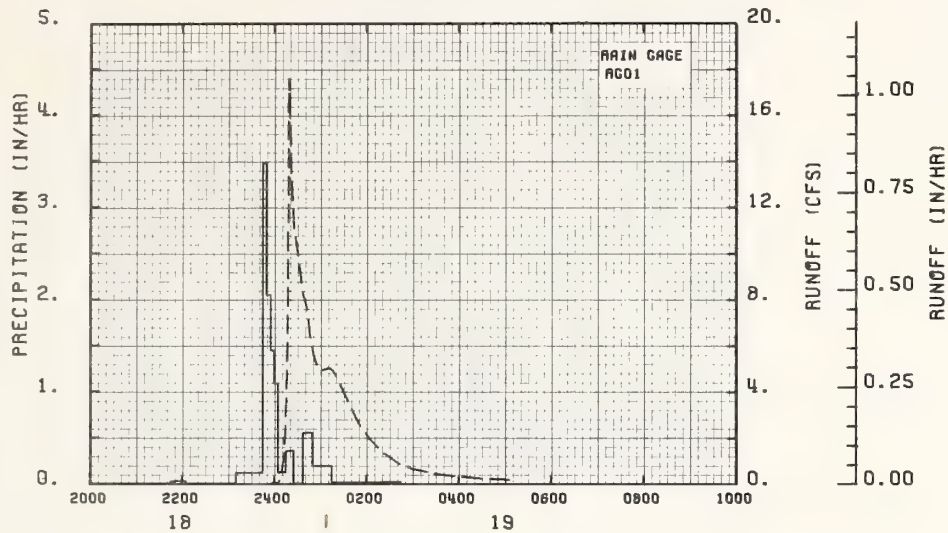
NOTES: Watershed conditions: All native grass pasture. The effect of overgrazing during September 1966 to October 1967 was definitely apparent in the vegetative cover at the beginning of the growing season in 1968. The gain in vegetative cover from September 1967 to September 1968 was measured as only 0.53 tons/acre. Grazing was resumed on August 10, 1968 with 16 head of cattle in this 40-acre pasture, and these cattle were removed on December 11, 1968. The cover condition was poor at the end of 1968. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 37.1-7 (Revised). Precipitation data obtained from R-1 recording rain gage. Precipitation and runoff records began July 1951. Station average precipitation data from R-3 recording rain gage record through 1964 combined with data from R-1 for 1965 through 1968. For long-time precipitation records, see U.S. Weather Bureau records at Stillwater, Oklahoma.

1968 MEAN DAILY DISCHARGE (cfs)														STILLWATER, OKLAHOMA WATERSHED W-1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.007														
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017	0.005															
3	0.0	0.0	0.0	1.029	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0															
4	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
6	0.0	0.0	0.0	0.0	0.322	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
7	0.0	0.0	0.0	0.0	0.140	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
8	0.0	0.0	0.012	0.0	0.196	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
9	0.0	0.0	0.0	0.0	0.255	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.001	0.0															
11	0.0	0.0	0.0	0.0 T	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0															
12	0.0	0.0	0.015	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
13	0.0	0.0	0.003	0.0	0.081	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
14	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
15	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.055	0.0															
16	0.0	0.0	0.0	0.0	0.019	0.0	0.014	0.0	0.0	0.0	0.008	0.0															
17	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.002	0.0															
18	0.128	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.082															
19	0.043	0.0	0.582	0.059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
20	0.016	0.0	0.049	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005															
21	0.012	0.0	0.301	0.051	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.080															
22	0.031	0.0	0.030	0.362	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.034															
23	0.016	0.0	0.014	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021															
24	0.007	0.0	0.002	0.0	0.498	0.0	0.0	0.0	0.0	0.0	0.0	0.013															
25	0.007	0.0	0.0	0.0	1.014	0.0	0.0	0.0	0.0	0.0	0.0	0.007															
26	0.005	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.008	0.0															
27	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.009															
28	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.318	0.028															
29	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.028															
30	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.014															
31	0.0		0.0		0.0		0.0		0.0			0.0															
MEAN		0.0087	0.0001	0.0325	0.0520	0.0835	0.0005	0.0	0.0	0.0	0.0	0.0153	0.0113														
INCHES		0.384	0.005	1.437	2.225	3.690	0.022	0.0	0.0	0.0	0.0	0.653	0.498														
STA AV		0.126	0.201	0.694	0.680	1.802	0.930	0.666	0.072	0.409	0.627	0.399	0.204														

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.425247.

1968	SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 18 - 19, 1968											
RG 01			RG 01								
3-18	0.11	0.0	3-18	2145	0.0	0.0	3-18	2357	0.0	0.0	
				2205	0.0300	0.01		2358	0.01	0.0	
				2310	0.0	0.01		2400	0.04	0.0001	
				2345	0.1200	0.08	3-19	2	0.05	0.0002	
				2350	3.4800	0.37		5	0.06	0.0004	
WATERSHED CONDITIONS: 100% of area in native grass pasture; pasture in poor condition.				2355	2.0400	0.54		6	0.10	0.0005	
				2400	1.4400	0.66		7	0.14	0.0006	
			3-19	5	1.0800	0.75		8	0.21	0.0008	
				15	0.1200	0.77		9	0.32	0.0011	
				25	0.3600	0.83		10	0.49	0.0015	
				37	0.0	0.83		11	0.72	0.0021	
				50	0.5538	0.95		12	1.07	0.0030	
				115	0.1920	1.03		13	1.38	0.0042	
				215	0.0100	1.04		14	1.84	0.0058	
				245	0.0200	1.05		15	2.59	0.0080	
								16	3.79	0.0111	
								17	5.59	0.0157	
								18	6.47	0.0226	
								19	17.59	0.0356	
								20	16.48	0.0524	
								22	13.81	0.0823	
								24	12.21	0.1081	
								26	11.04	0.1310	
								30	10.14	0.1731	
								34	9.06	0.2111	
								38	8.14	0.2452	
								42	7.66	0.2765	
								47	6.33	0.3111	
								51	5.50	0.3347	
								55	5.17	0.3560	
								100	4.88	0.3809	
								110	5.03	0.4299	
								116	4.88	0.4594	
								123	4.50	0.4919	
								136	3.55	0.5437	
								150	2.59	0.5863	
								205	1.80	0.6195	
								223	1.30	0.6479	
								242	0.86	0.6683	
								300	0.63	0.6816	
								322	0.46	0.6935	
								341	0.36	0.7012	
								404	0.28	0.7095	
								437	0.21	0.7164	
								505	0.16	0.7215	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385. Antecedent precipitation shown for 3-18 occurred between 1337 and 1555.



EVENT OF MARCH 18 - 19, 1968
STILLWATER, OKLAHOMA WATERSHED W-1

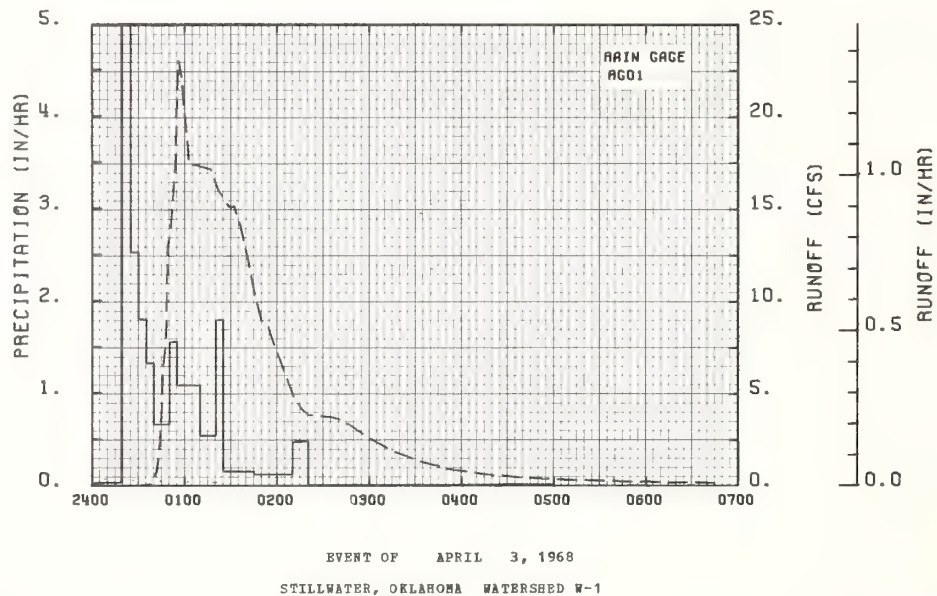
1968 SELECTED RUNOFF EVENT						STILLWATER, OKLAHOMA WATERSHED W-1					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 3, 1968											
4- 3	RG 01		4- 3	RG 01			4- 3				
	0.0	0.0		1	0.0	0.0		32	0.0	0.0	
				19	0.0333	0.01		33	0.04	0.0	
				25	5.0000	0.51		34	0.05	0.0	
				30	2.5200	0.72		37	0.07	0.0002	
				35	1.8000	0.87		38	0.12	0.0003	
WATERSHED CONDITIONS: 100% of area in native grass pasture; pasture in poor condition.				40	1.3200	0.98		39	0.21	0.0005	
				50	0.6600	1.09		40	0.36	0.0008	
				55	1.5600	1.22		41	0.59	0.0013	
				100	1.0800	1.31		42	0.86	0.0020	
				110	1.0800	1.49		43	1.54	0.0032	
				120	0.5400	1.58		44	2.49	0.0052	
				125	1.8000	1.73		45	3.79	0.0083	
				145	0.1500	1.78		46	6.33	0.0133	
				210	0.1200	1.83		48	8.18	0.0276	
				220	0.4800	1.91		49	12.79	0.0381	
				420	0.0050	1.92		51	14.01	0.0645	
				500	0.0150	1.93		52	15.03	0.0788	
					54	17.36	0.1110				
					55	21.01	0.1299				
					56	23.03	0.1516				
					58	22.03	0.1964				
					103	17.39	0.2938				
					117	17.08	0.5326				
					122	15.95	0.6142				
					129	15.02	0.7215				
					132	15.16	0.7663				
					136	14.10	0.8242				
					141	12.28	0.8894				
					144	10.90	0.9238				
					147	9.81	0.9546				
					150	8.87	0.9824				
					154	8.64	1.0171				
					158	7.66	1.0494				
					202	6.75	1.0779				
					206	5.84	1.1028				

WATERSHED CONDITIONS:
100% of area in native grass
pasture; pasture in poor
condition.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.

1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 3, 1968 (CONTINUED)										
							4- 3	211	4.77	1.1290
								216	4.13	1.1510
								220	3.79	1.1667
								236	3.67	1.2258
								244	3.44	1.2539
								259	2.59	1.2986
								314	1.89	1.3318
								333	1.30	1.3618
								353	0.86	1.3832
								412	0.63	1.3972
								438	0.46	1.4091
								453	0.36	1.4168
								515	0.28	1.4238
								546	0.21	1.4313
								612	0.16	1.4360
								650	0.12	1.4414

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.



STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River.

AREA: 92.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-3									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual									
1968	P	1.17	0.60	2.62	4.21	6.61	3.28	0.69	3.04	1.67	1.98	5.23	1.23	32.33									
	O	0.142	0.0	1.150	2.095	3.261	0.066	0.0	0.0	0.0	0.0	0.361	0.192	7.267									
STA AV	P	0.61	1.01	1.92	2.27	5.09	3.83	4.19	2.90	3.38	2.39	1.63	1.09	30.33									
	O	0.047	0.109	0.520	0.545	1.553	0.792	0.565	0.088	0.350	0.573	0.209	0.088	5.439									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours	12 Hours	Date	1 Day	Date	Vol.	Date	Vol.	Date	Vol.					
1968		4- 3	0.976	4- 3	0.807	4- 3	1.115	5-24	1.440	5-24	1.788	5-24	1.864	5-24	1.878	5-20	1.933						
MAXIMUMS FOR PERIOD OF RECORD																							
		7-15	4.739	7-15	2.896	7-15	3.486	7-15	3.796	10- 1	4.957	10- 1	5.185	10- 1	6.083	9-30	8.143						
		1951		1951		1951		1951		1959		1959		1959		1959							

NOTES: Watershed conditions: All native grass cover, 32% of watershed is in hay meadow and 68% in pasture. The meadow was cut for hay the latter part of July with a yield of only 1.0 ton/acre. The highest yield recorded for this meadow was 2.5 tons/acre in 1963. In general, the pasture portion was in poor condition due to overgrazing and drought in previous years, and heavy grazing this year. Rainfall for April and May totaled 3.46 inches above station average, and for the months of June through September totaled 5.62 inches below station average. Rainfall for the entire year was 1.98 inches above station average. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, ARS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gage. Precipitation and runoff records began July 1951. Max. rate and vol. for selected time intervals, max. for period of record: The 8-day volume has been revised due to an adjustment in the rating for low flow. Runoff results not corrected for pond effect (1 farm pond). For long-time precipitation records, see U.S. Weather Bureau records at Stillwater, Oklahoma.

1968		MEAN DAILY DISCHARGE (cfs)					STILLWATER, OKLAHOMA WATERSHED W-3						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.016	
2	0.0	0.0	0.0	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.013	0.007	
3	0.0	0.0	0.0	5.378	0.0	0.026	0.0	0.0	0.0	0.0	0.018	0.0	
4	0.0	0.0	0.0	0.035	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	1.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.891	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.639	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	1.455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.343	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.078	0.0	
16	0.0	0.0	0.0	0.056	0.021	0.130	0.0	0.0	0.0	0.0	0.012	0.0	
17	0.0	0.0	0.0	0.072	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.208	0.0	0.0 T	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.064	
19	0.136	0.0	2.680	0.221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	
20	0.047	0.0	0.148	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	
21	0.035	0.0	1.302	0.204	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.187	
22	0.059	0.0	0.157	1.781	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.143	
23	0.044	0.0	0.057	0.083	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.060	
24	0.021	0.0	0.042	0.035	1.780	0.0	0.0	0.0	0.0	0.0	0.0	0.076	
25	0.0	0.0	0.035	0.037	5.476	0.0	0.0	0.0	0.0	0.0	0.0	0.016	
26	0.0	0.0	0.023	0.035	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.021	
27	0.0	0.0	0.0	0.012	0.042	0.0	0.0	0.0	0.0	0.0	0.016	0.062	
28	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	1.174	0.056	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.054	0.012	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032	0.0	
31	0.0		0.0		0.0		0.0			0.0		0.0	
MEAN	0.0177	0.0	0.1433	0.2699	0.4066	0.0085	0.0	0.0	0.0	0.0	0.0465	0.0239	
INCHES	0.142	0.0	1.150	2.095	3.261	0.066	0.0	0.0	0.0	0.0	0.361	0.192	
STA AV	0.047	0.109	0.520	0.545	1.553	0.792	0.565	0.088	0.350	0.573	0.209	0.088	

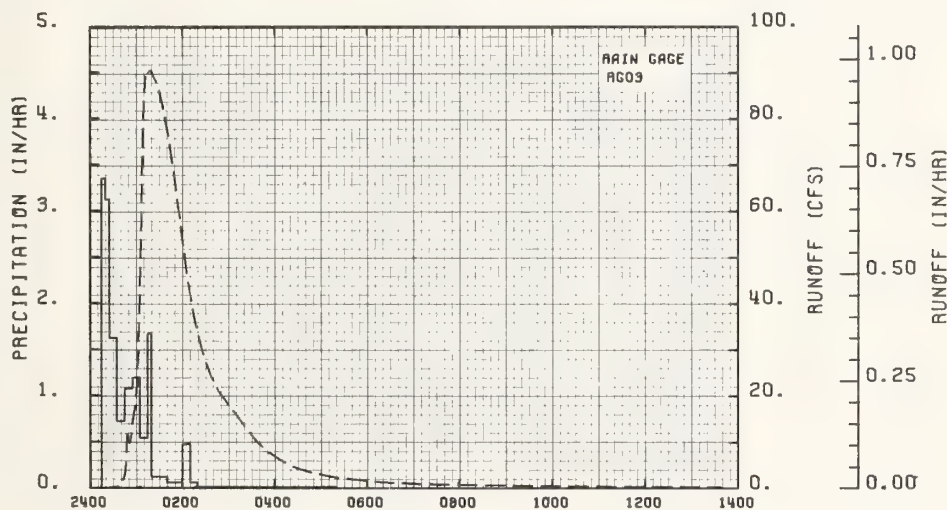
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258715.

1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Painfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 3, 1968										
4-3	RG 03 0.0	0.0	4-3	RG 03 15	0.0	0.0	4-3	25	0.0	0.0
				20	3.3600	0.28		29	0.20	0.0001
				25	3.1200	0.54		32	0.31	0.0002
				35	1.6200	0.81		34	0.40	0.0003
				45	0.7200	0.93		36	0.39	0.0004
WATERSHED CONDITIONS: 100% of area in native grass; 32% used as hay meadow in good condition, 46% in pasture in fair condition and 22% in pasture in poor condition.				55	1.0800	1.11		38	0.49	0.0006
				105	1.2000	1.31		40	0.69	0.0008
				115	0.5400	1.40		41	0.80	0.0009
				120	1.6800	1.54		42	1.10	0.0011
				140	0.1200	1.58		43	1.62	0.0013
				200	0.0600	1.60		44	2.21	0.0016
				210	0.4800	1.68		45	2.93	0.0021
				220	0.0600	1.69		46	3.96	0.0027
				320	0.0100	1.70		47	7.36	0.0037
				420	0.0100	1.71		48	12.07	0.0054
				520	0.0100	1.72		49	12.69	0.0076
								50	10.39	0.0097
								52	9.82	0.0133
								54	12.33	0.0173
								56	15.09	0.0222
								59	18.23	0.0312
								101	22.64	0.0386
								102	25.75	0.0429
								103	30.92	0.0480
								104	37.66	0.0542
								105	43.20	0.0614
								106	50.30	0.0698
								107	57.25	0.0794
								108	66.97	0.0907
								109	76.41	0.1035
								110	83.16	0.1178
								111	85.54	0.1329
								112	89.35	0.1488
								113	88.35	0.1647
								117	90.35	0.2289
								119	90.56	0.2615
								122	89.24	0.3098
								128	87.18	0.4050
								132	84.74	0.4668
								138	79.79	0.5556
								143	75.27	0.6252
								147	70.55	0.6776
								151	65.73	0.7266
								154	61.41	0.7609
								158	57.00	0.8034
								201	52.54	0.8329
								204	48.80	0.8602
								207	45.22	0.8854
								211	41.22	0.9165
								215	37.41	0.9448
								220	33.77	0.9767
								226	29.73	1.0109
								230	27.35	1.0315
								238	23.98	1.0684
								248	20.56	1.1084
								300	17.93	1.1499
								313	15.07	1.1884
								326	12.27	1.2203
								337	9.94	1.2422
								348	8.19	1.2601
								358	6.98	1.2737
								410	5.66	1.2873
								418	5.00	1.2950
								429	4.17	1.3041
								443	3.52	1.3138
								500	2.82	1.3235
								519	2.24	1.3321
								540	1.79	1.3397
								604	1.41	1.3466
								631	1.12	1.3527
								657	0.91	1.3574
								729	0.74	1.3621
								800	0.63	1.3659
								837	0.52	1.3697
								906	0.45	1.3722

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.

1968 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF APRIL 3, 1968 (CONTINUED)									
							4- 3	945	0.37
								1024	0.32
								1110	0.25
								1145	0.21
								1221	0.18
								1256	0.14
								1338	0.11
									1.3751
									1.3775
									1.3798
									1.3813
									1.3826
									1.3836
									1.3845

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.



EVENT OF APRIL 3, 1968
STILLWATER, OKLAHOMA WATERSHED W-3

STILLWATER, OKLAHOMA WATERSHED W-4

Location: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River.

APFA: 204.00

MONTHLY PRECIPITATION AND RUNOFF (inches)														STILLWATER, OKLAHOMA WATERSHED W-4													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	1.15	0.45	2.10	3.98	6.58	2.69	1.07	1.95	1.44	2.11	4.96	1.06	29.54													
	R	0.034	0.0	0.359	1.154	2.150	0.001	0.0	0.0	0.0	0.0	0.143	0.021	3.862													
STRAV	P	0.54	0.97	1.85	2.19	4.92	3.71	4.06	2.76	3.39	2.42	1.54	1.04	29.40													
	R	0.064	0.077	0.326	0.343	1.206	0.734	0.529	0.070	0.350	0.512	0.123	0.070	4.405													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		4-3	0.562	4-3	0.522	4-3	0.813	5-24	1.114	5-24	1.394	5-24	1.444	5-24	1.450	5-24	1.451										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-18	2.390	4-18	1.473	4-18	1.936	10-2	2.628	10-2	4.493	10-2	4.711	10-1	5.238	9-30	6.877										
		1957		1957		1957		1959		1959		1959		1959		1959											

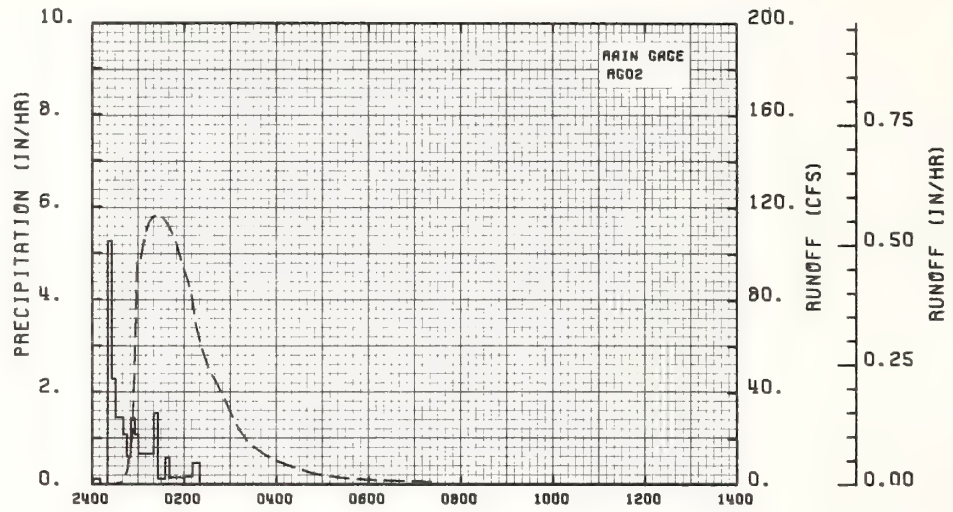
NOTES: Watershed conditions: All native grass cover, 17.3% of watershed area is in hay meadow and 82.7% in pasture. The meadow was cut for hay the last of August, and it did not appear the yield was as much as last year. Precipitation for April and May totaled 3.44 inches above station average, and June through September totaled 6.76 inches below station average. Generally, the pastures were in poor-to-fair condition due to drought and overgrazing in previous years and continued heavy grazing this year. Precipitation for the year was 0.12 inch above station average. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 37.3-6 (Revised). Precipitation data from R-2 recording rain gage. Precipitation and runoff records begin July 1951. Station average precipitation data from R-4 recording rain gage record through 1964 combined with R-2 for 1965 through 1968. Max. rate and vol. for selected time intervals - Max. for period of record: The 2-day and 8-day volumes have been revised due to an adjustment in the rating for low flow. Runoff results not corrected for ponds effect (3 farm ponds). For long-time precipitation records, see U.S. Weather Bureau records at Stillwater, Oklahoma.

1968		MEAN DAILY DISCHARGE (cfs)					STILLWATER, OKLAHOMA WATERSHED W-4							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.118	0.0		
3	0.0	0.0	0.0	8.681	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0		
4	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	1.480	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.540	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	1.666	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	1.730	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.102	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.423	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.256	0.0		
16	0.0	0.0	0.0	0.288	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004		
19	0.071	0.0	1.664	0.069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.002	0.0	0.155	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.970	0.021	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.123		
22	0.023	0.0	0.223	0.868	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.041		
23	0.002	0.0	0.077	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.021	0.0	2.808	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	9.713	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.819	0.012		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MEAN	0.0094	0.0	0.1003	0.3330	0.6001	0.0004	0.0	0.0	0.0	0.0	0.0414	0.0058		
TRIMMED MEAN	0.034	0.0	0.359	1.154	2.150	0.001	0.0	0.0	0.0	0.0	0.143	0.021		
STRAV	0.064	0.077	0.326	0.343	1.206	0.734	0.529	0.070	0.350	0.512	0.123	0.070		

NOTE: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.115542.

1968			SELECTED RUNOFF EVENT				STILLWATER, OKLAHOMA WATERSHED W-4			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 3, 1968										
RG 02			RG 02							
4- 3	0.0	0.0	4- 3	1	0.0	0.0	4- 3	27	0.0	0.0
				10	0.1333	0.02		28	0.27	0.0
				20	0.0	0.02		31	0.25	0.0001
				25	5.2800	0.46		32	0.58	0.0001
				30	2.2800	0.65		33	0.77	0.0002
WATERSHED CONDITIONS: 100% of area in native grass, 17.3% used as hay meadow in good condition and 82.7% in pasture in fair condition.				40	1.4400	0.89		34	0.66	0.0003
				45	1.0800	0.98		36	0.79	0.0004
				50	0.6000	1.03		37	1.02	0.0005
				55	1.4400	1.15		38	1.16	0.0006
				100	1.0800	1.24		39	1.50	0.0007
				120	0.6600	1.46		40	2.06	0.0008
				125	1.5600	1.59		41	2.58	0.0010
				135	0.1200	1.61		42	3.28	0.0012
				140	0.6000	1.66		43	3.99	0.0015
				200	0.1500	1.71		44	4.82	0.0019
				210	0.1800	1.74		45	5.82	0.0023
				220	0.4800	1.82		46	7.33	0.0028
				320	0.0100	1.83		47	10.68	0.0035
				420	0.0100	1.84		48	14.52	0.0045
								49	16.01	0.0057
								50	16.20	0.0070
								52	21.93	0.0100
								53	31.59	0.0123
								54	43.70	0.0154
								55	55.61	0.0194
								56	68.05	0.0243
								57	80.74	0.0303
								58	96.67	0.0374
								102	96.11	0.0683
								105	102.07	0.0922
								108	107.16	0.1174
								113	113.45	0.1616
								118	115.91	0.2076
								126	116.78	0.2823
								129	116.20	0.3104
								135	113.97	0.3659
								142	109.84	0.4288
								150	103.38	0.4972
								156	96.05	0.5451
								203	89.30	0.5972
								209	82.19	0.6385
								214	69.92	0.6690
								222	59.30	0.7105
								231	49.89	0.7500
								245	41.54	0.8014
								256	34.09	0.8347
								304	27.98	0.8547
								312	23.14	0.8711
								321	19.03	0.8863
								333	15.43	0.9029
								346	12.36	0.9174
								400	10.10	0.9300
								414	8.18	0.9403
								428	6.52	0.9486
								443	5.09	0.9556
								501	3.84	0.9621
								523	2.89	0.9680
								546	2.22	0.9727
								614	1.64	0.9770
								648	1.33	0.9811
								721	1.08	0.9843

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.004814.



EVENT OF APRIL 3, 1968
STILLWATER, OKLAHOMA WATERSHED W-4

RIESEL (WACO), TEXAS WATERSHED C

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin.

AREA: 579.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED C													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	4.67	3.14	3.13	5.05	6.52	7.41	4.15	1.72	5.86	1.36	7.68	0.83	51.51													
	O	2.981	1.464	1.727	2.230	2.334	3.277	0.975	0.000	0.182	0.000	2.189	0.250	17.609													
STA AV	P	1.99	2.76	2.07	3.94	4.14	3.74	1.58	2.63	3.17	2.73	3.23	2.28	34.25													
	O	0.474	0.599	0.496	1.044	0.981	0.688	0.186	0.201	0.391	0.325	0.526	0.519	6.428													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1968		6-24	0.569	6-24	0.530	6-24	0.874	5-10	1.433	5-10	1.662	5-10	1.727	5-10	1.743	5-10	1.743	5-10	2.102								
MAXIMUMS FOR PERIOD OF RECORD																											
		3-29	1.580	3-29	1.500	3-29	2.520	3-29	3.550	3-29	3.800	3-29	4.480	9-7	4.780	4-19	8.760										
		1965		1965		1965		1965		1965		1965		1965		1942	1957										

NOTES: Watershed conditions: 75% pasture; 1% row grain sorghum; 9% fall planted small grain, largely oats; 1% corn; 1% cotton; 4% tilled, but not planted; 2% gravel and paved roads; 7% other. Approximately 90% of other is Johnson-grass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Feb. 1939; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 5, 14, and 20. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY AIR TEMPERATURE (degrees F)														RIESEL (WACO), TEXAS WATERSHED C													
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
		max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min														
1		41 31	72 59	82 28	63 58	76 52	88 68	89 73	92 71	85 66	84 61	85 62	44 37														
2		41 32	70 39	55 34	65 59	81 59	88 65	90 71	92 71	90 69	87 63	84 60	58 39														
3		52 41	60 40	60 34	74 60	83 62	76 65	87 68	92 71	86 72	90 65	84 53	57 42														
4		50 34	62 38	47 30	76 42	86 60	73 65	85 67	92 72	93 72	81 62	59 43	55 33														
5		38 34	64 41	54 35	58 38	78 58	76 68	85 62	89 71	94 68	76 60	66 47	62 37														
6		40 36	59 39	52 44	60 43	79 55	83 65	85 63	91 72	80 66	79 60	67 47	61 33														
7		43 37	62 33	58 45	72 51	80 62	86 71	85 67	93 73	73 65	73 51	65 42	59 35														
8		25 16	51 31	66 46	79 64	79 65	86 71	88 69	94 74	85 68	78 55	59 42	54 28														
9		32 23	54 35	64 54	78 56	81 63	88 72	80 67	93 75	92 68	88 69	43 34	50 30														
10		33 32	60 38	78 50	66 58	81 63	88 72	83 67	95 75	87 60	80 55	55 41	59 35														
11		38 32	60 36	70 52	74 56	77 63	91 73	89 71	96 74	82 57	74 56	61 35	64 48														
12		42 36	47 31	54 36	74 54	72 60	91 75	89 71	90 74	83 59	75 65	52 32	64 50														
13		45 27	57 34	48 31	70 60	78 61	94 71	85 71	91 74	83 59	85 72	63 39	73 36														
14		45 23	48 34	56 36	80 65	84 73	93 72	90 72	92 74	83 65	88 71	76 44	59 27														
15		49 24	36 34	66 44	75 49	85 72	90 72	89 75	94 76	73 64	88 70	76 58	49 27														
16		52 28	40 35	68 47	75 58	86 72	90 71	90 75	95 77	84 75	87 66	72 43	52 29														
17		56 30	50 35	76 53	78 65	81 71	90 70	90 72	95 73	94 63	84 49	73 47	57 41														
18		63 44	47 36	70 57	77 66	77 55	89 70	89 72	94 70	77 58	70 47	62 37	68 57														
19		60 48	52 40	72 63	76 68	76 58	88 70	88 73	94 71	84 58	73 47	55 32	73 35														
20		58 51	53 41	72 60	78 60	77 53	83 70	87 68	95 73	86 60	81 51	63 36	60 37														
21		56 50	66 42	67 36	77 63	76 58	77 67	94 70	95 72	92 72	83 54	62 42	58 47														
22		56 48	52 29	50 33	74 65	82 64	80 68	90 74	95 73	91 71	79 56	72 49	68 44														
23		64 43	32 25	57 30	77 52	87 70	82 70	91 72	96 74	88 72	82 56	72 54	48 27														
24		46 31	32 27	61 35	64 44	87 71	79 73	90 73	95 70	88 68	80 49	78 47	47 28														
25		54 34	54 29	69 47	73 47	88 72	87 73	90 73	93 71	85 65	66 45	68 40	57 32														
26		70 41	66 40	71 50	73 55	90 64	88 66	90 70	93 73	76 59	75 46	72 48	68 47														
27		70 54	70 42	72 53	80 60	74 61	77 62	90 71	93 70	79 58	84 54	75 44	72 66														
28		66 61	71 47	71 57	83 61	75 59	83 69	90 73	91 64	84 60	79 42	45 37	70 31														
29		66 60	50 29	75 60	71 53	84 64	88 74	92 73	90 61	83 61	73 50	58 38	57 33														
30		69 61		74 63	74 53	88 70	90 74	89 75	89 64	83 61	85 59	49 40	69 45														
31		65 55		74 62		87 69		92 74	90 70		84 64		67 19														
AV.		51 38	55 36	63 45	73 56	81 63	85 69	88 70	92 71	85 64	80 57	65 43	60 37														
MEAN		44.6	45.8	54.5	64.7	72.3	77.6	79.6	82.3	75.0	68.8	54.8	48.6														
STA AV		57 37	62 40	69 47	77 56	83 63	89 70	94 72	94 72	88 66	81 57	68 46	61 39														

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 0800 of the day shown. STA AV based on 30 yr (1939-1968) period.

1968	DAILY PRECIPITATION (inches)						PIESEL (WACO), TEXAS		WATERSHED C			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.21S	1.30	0.0	1.46	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.15	0.0	2.77	1.42	0.0	0.0	0.0	0.89	0.02F
3	0.23	0.0	0.0	0.52	1.28	0.35	0.0	0.0	0.48	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	1.17	0.0	0.0	0.0
5	0.43	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.05	0.08E	0.0	0.0
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.05S	0.0	0.05F	0.0	0.02E	0.0	0.64	0.0	0.0	0.0	0.93	0.0
9	0.0 S	0.0	0.0	0.11E	0.73	0.0	0.26	0.0	0.0	1.24	0.0	0.0
10	0.0	0.0 E	0.76	0.0	2.25	0.0	0.46	0.0	0.0	0.0	0.0	0.0
11	0.01F	0.0	1.57	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0 E	0.0	0.0	1.97	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.32
13	0.0	0.02E	0.0	0.0	0.01E	0.0	1.31	0.0	0.0	0.0	0.0	0.0
14	0.0	0.60	0.0	0.0	0.0	0.0 E	0.06E	0.0	1.28	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	1.73	0.0
16	0.0	0.0	0.0	0.0	0.02E	0.05	0.0	0.0	0.0	0.03F	0.0	0.0
17	0.0	0.0 E	0.0	0.0	1.06	0.0	0.0	0.0	1.90	0.0	0.0	0.0
18	0.99	0.01	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.00E
19	0.0	0.33	0.15F	0.66	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0
20	0.23	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.07
21	1.25	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.20
22	0.0	0.13S	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.13
23	0.01E	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.12E	0.0
24	0.0	0.0	0.0	0.0	0.0	2.66	0.0	0.0	0.50	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.87	0.68	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	1.02	0.0	0.0	1.06	0.0
27	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	1.33	0.09E
28	0.07E	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.61	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	4.67	1.14	3.12	5.05	6.52	7.41	4.15	1.72	5.86	1.36	7.68	0.81
STA AV	1.99	2.76	2.07	3.94	4.14	3.74	1.58	2.63	3.17	2.73	3.23	2.28

NOTES: Precipitation values are Thiessen weighted average of rain gages 5, 14, and 20. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968	MEAN DAILY DISCHARGE (cfs)						PIESEL (WACO), TEXAS		WATERSHED C			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.665	24.176	0.111	3.489	0.0 T	0.001	0.0 T	0.0	0.0	0.0	0.0	5.293
2	0.416	0.913	0.059	11.690	0.0 T	17.143	6.061	0.0	0.0	0.0	0.0	0.425
3	1.117	0.210	0.031	6.570	0.876	21.825	1.979	0.0	0.0	0.0	0.0	0.131
4	0.516	0.095	0.018	1.068	1.508	1.490	0.082	0.0	0.001	0.0	0.0	0.050
5	2.862	0.056	0.018	0.123	0.076	0.224	0.007	0.0	0.0 T	0.0	0.0	0.026
6	2.236	0.034	0.168	0.039	0.009	0.065	0.001	0.0	0.0	0.0	0.0	0.015
7	0.302	0.018	0.091	0.016	0.001	0.021	0.0 T	0.0	0.0	0.0	0.0	0.007
8	0.152	0.011	0.061	0.009	0.001	0.007	0.004	0.0	0.0	0.0	0.0	0.004
9	11.413	0.008	0.056	0.006	0.003	0.003	0.051	0.0	0.0	0.001	0.0	0.005
10	4.435	0.008	0.840	0.004	42.032	0.002	0.029	0.0	0.0	0.0 T	0.0	0.004
11	1.701	0.006	37.935	0.002	0.642	0.001	0.491	0.0	0.0	0.0	0.0	0.005
12	0.493	0.004	1.776	25.037	0.185	0.001	0.064	0.0	0.0	0.0	0.0	0.011
13	0.163	0.003	0.224	2.422	0.077	0.001	14.298	0.0	0.0	0.0	0.0	0.007
14	0.075	0.328	0.087	0.222	0.031	0.0 T	0.579	0.0	0.0	0.0	0.0	0.006
15	0.046	0.546	0.047	0.048	0.011	0.0 T	0.066	0.0	0.0	0.0	10.015	0.004
16	0.027	0.145	0.030	0.017	0.005	0.0 T	0.008	0.0	0.0	0.0	0.450	0.004
17	0.020	0.066	0.023	0.010	8.913	0.0 T	0.001	0.0	4.303	0.0	0.140	0.005
18	11.893	0.044	0.019	0.006	1.723	0.0 T	0.001	0.0	0.122	0.0	0.017	0.005
19	1.836	0.790	0.027	1.553	0.147	0.0 T	0.001	0.0	0.005	0.0	0.008	0.003
20	1.325	0.343	0.192	1.439	0.023	0.0 T	0.001	0.0	0.0 T	0.0	0.004	0.003
21	24.773	0.155	0.120	0.242	0.004	0.0 T	0.0 T	0.0	0.0 T	0.0	0.002	0.006
22	4.626	0.103	0.033	0.169	0.001	0.0 T	0.0 T	0.0	0.0	0.0	0.002	0.011
23	0.537	0.063	0.016	0.046	0.001	0.0 T	0.0	0.0	0.0	0.0	0.003	0.006
24	0.192	0.044	0.009	0.012	0.001	34.645	0.0	0.0	0.0 T	0.0	0.002	0.006
25	0.105	0.029	0.005	0.004	0.004	0.359	0.0	0.0	0.0 T	0.0	0.002	0.006
26	0.069	0.020	0.003	0.001	0.357	3.725	0.0	0.001	0.0	0.0	0.772	0.006
27	0.052	0.014	0.002	0.001	0.109	0.173	0.0	0.0	0.0	0.0	18.050	0.008
28	0.063	6.906	0.002	0.001	0.034	0.023	0.0	0.0	0.0	0.0	3.173	0.006
29	0.078	0.473	0.001	0.0 T	0.005	0.003	0.0	0.0	0.0	0.0	0.280	0.006
30	0.098	0.001	0.001	0.0 T	0.002	0.0 T	0.0	0.0	0.0	0.0	20.325	0.006
31	0.242	0.002	0.002	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.004
MEAN	2.3395	1.2278	1.3550	1.8081	1.8316	2.6570	0.7653	0.0	0.1477	0.0	1.7747	0.1963
INCHES	2.981	1.464	1.727	2.230	2.334	3.277	0.975	0.000	0.182	0.000	2.189	0.250
STA AV	0.474	0.599	0.496	1.044	0.981	0.688	0.186	0.201	0.391	0.325	0.526	0.518

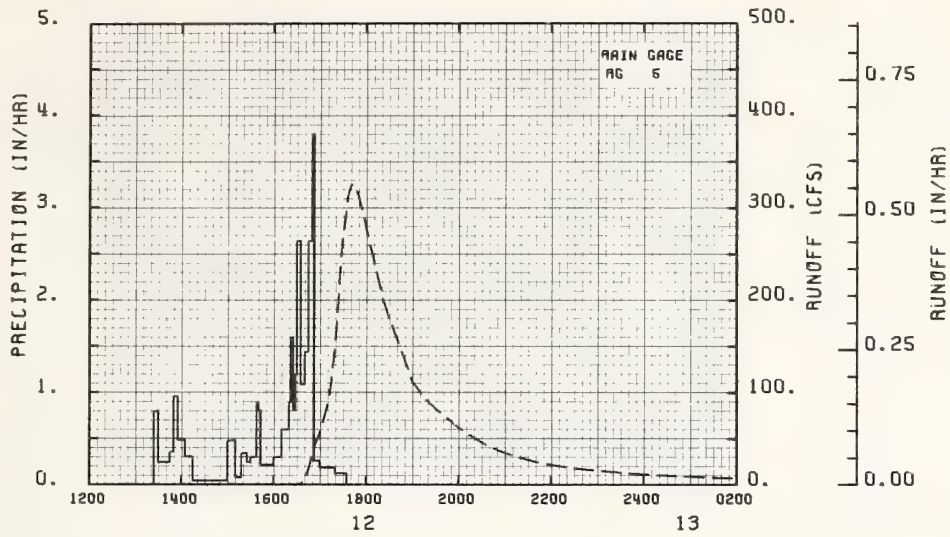
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.041107. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968 SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS WATERSHED C				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 12 - 13, 1968										
4-12	RG 5 0.0	0.0	4-12	RG 5	0.0	0.0	4-12	1326	0.0	0.0
				1330	0.8000	0.08		1330	0.0	0.0
				1345	0.2400	0.14		1335	0.01	0.0
				1350	0.3600	0.17		1340	0.01	0.0
				1355	0.9600	0.25		1345	0.01	0.0
WATERSHED CONDITIONS:							1350	0.01	0.0	
75% pasture, all classes; 1%							1354	0.01	0.0	
row grain sorghum, 1 to 3							1400	0.02	0.0	
inches high; 9% fall planted							1405	0.02	0.0	
small grain, mostly oats,							1410	0.02	0.0	
10 to 12 inches high; 1%							1415	0.03	0.0	
corn, 2 to 4 inches high;							1420	0.03	0.0	
5% tilled, but not planted;							1430	0.03	0.0	
2% gravel and paved roads;							1440	0.03	0.0	
7% other. Approx. 90% of							1450	0.02	0.0	
other is Johnsongrass and							1502	0.02	0.0	
weeds in conservation re-							1506	0.02	0.0	
serve, neither tilled nor							1510	0.03	0.0	
grazed.							1515	0.03	0.0	
				1600	0.2118	0.73		1520	0.04	0.0
				1610	0.3000	0.78		1525	0.05	0.0
				1620	0.6000	0.88		1530	0.05	0.0
				1622	0.9002	0.91		1535	0.06	0.0
				1625	1.5999	0.99		1540	0.07	0.0
				1628	0.7999	1.03		1545	0.09	0.0
				1630	1.1997	1.07		1550	0.11	0.0
				1635	2.6402	1.29		1555	0.12	0.0
				1640	1.0801	1.38		1600	0.14	0.0
				1645	1.4398	1.50		1605	0.15	0.0
				1650	2.6402	1.72		1610	0.17	0.0
				1653	3.7998	1.91		1615	0.19	0.0
				1700	0.2571	1.94		1620	0.22	0.0
				1720	0.1800	2.00		1625	0.33	0.0
				1735	0.1200	2.03		1630	0.54	0.0001
								1635	1.08	0.0002
								1640	4.25	0.0006
								1642	8.03	0.0010
								1644	13.43	0.0016
								1646	19.40	0.0025
								1648	25.30	0.0038
								1650	33.37	0.0055
								1652	37.78	0.0075
								1654	44.18	0.0098
								1656	47.81	0.0124
								1700	56.35	0.0184
								1704	67.17	0.0255
								1708	79.89	0.0339
								1712	93.09	0.0438
								1716	119.06	0.0559
								1718	134.82	0.0631
								1720	155.94	0.0714
								1722	176.26	0.0808
								1724	199.58	0.0916
								1726	229.66	0.1038
								1730	269.82	0.1324
								1734	296.80	0.1647
								1736	310.59	0.1820
								1738	317.67	0.2000
								1740	324.39	0.2183
								1742	324.39	0.2369
								1746	321.50	0.2738
								1750	312.46	0.3100
								1755	295.90	0.3534
								1800	277.44	0.3944
								1810	241.33	0.4684
								1820	205.94	0.5323
								1830	178.97	0.5873
								1840	157.04	0.6352
								1850	135.06	0.6769
								1900	110.79	0.7120
								1910	99.38	0.7420
								1920	89.46	0.7690
								1930	81.69	0.7934
								1940	74.55	0.8157
								1950	68.14	0.8361

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.001713.

1968 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS			WATERSHED C		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)								
				4-12			2000	60.91
							2010	55.09
							2020	49.99
							2030	44.89
							2040	40.27
							2050	36.93
							2100	33.66
							2110	30.94
							2120	28.58
							2130	26.12
							2140	24.22
							2150	22.36
							2200	20.72
							2220	18.10
							2240	16.02
							2300	14.40
							2320	12.97
							2340	11.78
							2400	10.58
				4-13			20	9.61
							40	8.82
							100	8.10
							130	7.22
							200	6.37
							230	5.85
							300	5.29
							330	4.75
							400	4.41
							430	4.07
							500	3.74
							530	3.47
							600	3.21
							700	2.82
							800	2.49
							900	2.17
							1000	2.00
							1100	1.66
							1200	1.46
							1300	1.32
							1400	1.23
							1500	1.03
							1600	0.94
							1700	0.85
							1800	0.76
							1900	0.70
							2000	0.63
							2100	0.57
							2200	0.52

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED C

AREA: 1110.00 acres 1.73 sq. miles

NOTES: Watershed conditions: 49% pasture; 12% tilled, but not planted; 5% cotton; 2% corn; 7% fall planted small grain, mostly oats; 5% row grain sorghum; 2% gravel and paved roads; 18% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, and 26A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 5, 14, 20, and 26A. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 23 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED D												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.198	54.531	0.150	6.103	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	1.457
2	0.695	1.442	0.079	21.809	0.0	34.802	18.187	0.0	0.0	0.0	0.058	0.755
3	1.693	0.314	0.042	9.841	1.420	43.705	3.639	0.0	0.0 T	0.0	0.012	0.258
4	0.764	0.135	0.027	3.225	2.154	2.401	0.131	0.001	0.131	0.0	0.0 T	0.001
5	5.055	0.078	0.032	0.156	1.100	0.351	0.017	0.0 T	0.003	0.0	0.0	0.000
6	3.642	0.043	0.236	0.049	0.015	0.094	0.002	0.0	0.0	0.0	0.0	0.029
7	0.476	0.021	0.125	0.022	0.001	0.632	0.0 T	0.0	0.0	0.0	0.0	0.016
8	0.590	0.013	0.070	0.012	0.0 T	0.011	0.018	0.0	0.0	0.0	0.007	0.009
9	19.068	0.010	0.068	0.012	0.005	0.003	0.152	0.0	0.0	0.048	0.004	0.011
10	9.469	0.010	3.028	0.007	91.768	0.0 T	0.062	0.0	0.0	0.001	0.0 T	0.012
11	3.125	0.009	75.303	0.002	1.012	0.0 T	0.421	0.0	0.0	0.0	0.0	0.014
12	0.878	0.005	2.689	53.149	0.298	0.0	0.085	0.0	0.0	0.0	0.0	0.026
13	0.272	0.004	0.317	3.805	0.122	0.0	24.412	0.0	0.0	0.0	0.0	0.014
14	0.122	0.448	0.116	0.294	0.049	0.0	0.848	0.0	0.011	0.0	0.0	0.007
15	0.079	0.750	0.070	0.056	0.019	0.0	0.101	0.0	0.038	0.0	15.904	0.006
16	0.048	0.192	0.044	0.024	0.009	0.001	0.021	0.0	0.0 T	0.0	0.710	0.006
17	0.038	0.085	0.030	0.015	16.674	0.0 T	0.005	0.0	9.801	0.0	0.095	0.009
18	22.337	0.059	0.025	0.009	2.705	0.0	0.001	0.0	0.219	0.0	0.023	0.014
19	2.941	1.247	0.046	2.533	0.194	0.0	0.0 T	0.0	0.010	0.0	0.007	0.007
20	2.861	0.499	0.288	1.993	0.036	0.0	0.0	0.0	0.0 T	0.0	0.003	0.003
21	45.696	0.224	0.158	0.366	0.000	0.0	0.0	0.0	0.0 T	0.0	0.001	0.012
22	7.763	0.148	0.040	0.243	0.002	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.037
23	0.852	0.098	0.017	0.059	0.0 T	0.012	0.0	0.0	0.0	0.0	0.0 T	0.010
24	0.286	0.078	0.009	0.013	0.0 T	72.997	0.0	0.0	0.005	0.0	0.0 T	0.008
25	0.159	0.052	0.005	0.004	0.033	1.280	0.0	0.0	0.002	0.0	0.0	0.009
26	0.105	0.033	0.004	0.001	0.571	7.060	0.0	0.010	0.0 T	0.0	1.308	0.013
27	0.083	0.019	0.002	0.0 T	0.350	0.272	0.0	0.0 T	0.0	0.0	31.870	0.031
28	0.108	12.184	0.002	0.0 T	0.062	0.041	0.0	0.0	0.0	0.0	6.007	0.032
29	0.126	0.734	0.001	0.0	0.011	0.007	0.0	0.0	0.0	0.0	0.514	0.015
30	0.177		0.001	0.0	0.002	0.001	0.0	0.0	0.0	0.0	40.129	0.016
31	0.377		0.001	0.0	0.0 T		0.0	0.0	0.0	0.0		0.005
MEAN	4.2283	2.5330	2.6781	3.4600	3.7941	5.4355	1.5516	0.0004	0.3406	0.0016	3.2216	0.3541
INCHES	2.811	1.575	1.780	2.226	2.522	3.497	1.031	0.000	0.219	0.001	2.072	0.235
STA AV	0.510	0.602	0.544	1.099	1.092	0.692	0.196	0.220	0.373	0.326	0.498	0.489

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.021442. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 23 yr period.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED D									
ANTECEDENT CONDITIONS			FAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 12 - 13, 1968												
RG	14		RG	14								
4-12	0.0	0.0	4-12	1325	0.0	0.0	4-12	1335	0.0	0.0		
				1329	0.4500	0.03		1339	0.0	0.0		
				1339	0.3000	0.08		1345	0.01	0.0		
				1345	0.3000	0.11		1351	0.01	0.0		
				1349	0.4500	0.14		1353	0.01	0.0		
WATERSHED CONDITIONS:												
49% pasture, all classes;					1359	0.5400	0.23	1355	0.02	0.0		
17% tilled, but not planted;					1409	0.3600	0.29	1359	0.02	0.0		
2% corn, 2 to 4 inches high;					1429	0.0600	0.31	1403	0.02	0.0		
7% fall planted small grain,					1449	0.0300	0.32	1405	0.03	0.0		
mostly oats, 10 to 12 inches					1454	0.0	0.32	1415	0.04	0.0		
high; 5% row grain sorghum,												
1 to 2 inches high; 2% gravel					1459	0.2400	0.34	1419	0.04	0.0		
and paved roads; 18% other.					1505	0.5000	0.39	1425	0.04	0.0		
Approx. 90% of other is					1509	0.3000	0.41	1435	0.03	0.0		
Johnsongrass and weeds in					1515	0.1000	0.42	1445	0.02	0.0		
conservation reserve,					1519	0.3000	0.44	1451	0.02	0.0		
neither tilled nor grazed.												
				1535	0.2625	0.51		1455	0.02	0.0		
				1537	0.9000	0.54		1503	0.03	0.0		
				1539	1.2000	0.58		1505	0.03	0.0		
				1550	0.1500	0.61		1507	0.04	0.0		
				1609	0.3600	0.69		1509	0.05	0.0		
				1615	0.3000	0.72		1511	0.06	0.0		
				1617	0.9002	0.75		1513	0.08	0.0		
				1619	1.4997	0.80		1515	0.08	0.0		
				1621	1.2003	0.84		1520	0.09	0.0		
				1625	0.6000	0.88		1525	0.11	0.0		
				1627	0.5999	0.90		1529	0.13	0.0		
				1629	2.7007	0.99		1533	0.15	0.0		
				1631	2.9994	1.09		1535	0.19	0.0		
				1633	1.5004	1.14		1537	0.27	0.0		
				1639	1.0999	1.25		1539	0.35	0.0		
				1641	1.5004	1.30		1541	0.41	0.0		
				1643	1.9010	1.43		1543	0.47	0.0		
				1645	2.0995	1.50		1545	0.51	0.0		
				1647	2.1005	1.57		1549	0.62	0.0		
				1649	3.8992	1.70		1551	0.72	0.0		

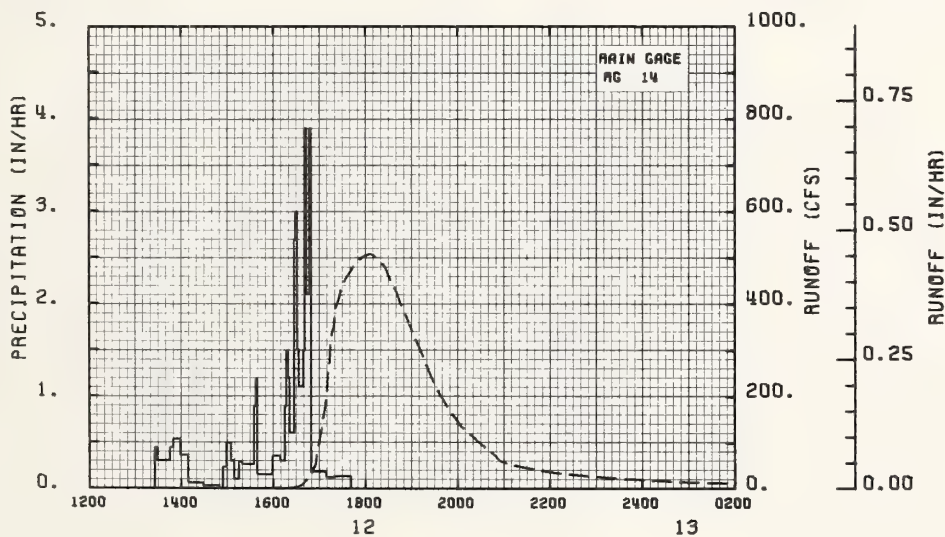
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.

1968 SELECTED RUNOFF EVENT			RIFSEL (WACO), TEXAS WATERSHED D							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
4-12	1709	0.1800	1.76	4-12	1555	0.85	0.0			
	1719	0.1200	1.78		1557	1.04	0.0			
	1741	0.1364	1.83		1559	1.38	0.0			
					1601	1.65	0.0			
					1605	1.96	0.0001			
					1609	2.14	0.0002			
					1613	2.19	0.0003			
					1615	2.19	0.0004			
					1619	2.25	0.0005			
					1623	2.40	0.0006			
					1627	3.06	0.0008			
					1631	3.97	0.0010			
					1633	4.73	0.0011			
					1635	6.58	0.0013			
					1637	8.87	0.0015			
					1639	12.12	0.0018			
					1641	15.97	0.0022			
					1643	19.18	0.0027			
					1645	23.57	0.0033			
					1647	27.13	0.0041			
					1649	32.35	0.0050			
					1651	37.96	0.0060			
					1653	45.09	0.0072			
					1655	55.16	0.0087			
					1657	81.00	0.0107			
					1659	95.00	0.0133			
					1701	117.00	0.0165			
					1703	131.00	0.0202			
					1705	152.00	0.0244			
					1707	173.50	0.0292			
					1709	198.00	0.0348			
					1711	246.00	0.0414			
					1713	277.00	0.0492			
					1715	321.00	0.0581			
					1717	341.00	0.0679			
					1719	356.00	0.0781			
					1721	392.00	0.0894			
					1725	412.00	0.1133			
					1729	441.00	0.1387			
					1735	457.00	0.1789			
					1745	483.00	0.2489			
					1755	501.00	0.3221			
					1805	508.00	0.3973			
					1810	503.00	0.4349			
					1815	497.00	0.4772			
					1825	479.00	0.5448			
					1835	441.50	0.6134			
					1840	425.00	0.6456			
					1845	402.00	0.6764			
					1855	362.00	0.7332			
					1905	322.50	0.7842			
					1915	284.00	0.8294			
					1925	242.50	0.8686			
					1935	208.00	0.9022			
					1945	181.00	0.9312			
					1955	155.00	0.9562			
					2005	133.50	0.9777			
					2015	119.00	0.9965			
					2025	103.00	1.0130			
					2035	89.00	1.0273			
					2045	76.50	1.0396			
					2055	58.64	1.0497			
					2105	53.27	1.0580			
					2115	49.05	1.0656			
					2125	45.36	1.0726			
					2135	42.23	1.0791			
					2145	38.94	1.0851			
					2155	36.30	1.0907			
					2205	34.02	1.0959			
					2215	32.28	1.1004			
					2225	30.53	1.1055			
					2245	27.07	1.1141			
					2305	24.36	1.1218			
					2325	21.71	1.1287			
					2345	19.61	1.1349			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.

1968	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED D						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
				4-12				2400	18.28	1.1391
				4-13				25	16.01	1.1455
								45	14.70	1.1501
								105	13.25	1.1543
								135	11.58	1.1598
								205	10.28	1.1647
								235	9.12	1.1690
								305	8.32	1.1729
								405	6.82	1.1797
								505	5.62	1.1853
								605	4.94	1.1900
								705	4.22	1.1941
								805	3.68	1.1976
								905	3.18	1.2007
								1030	2.66	1.2044
								1204	2.23	1.2078
								1304	2.01	1.2097
								1404	1.81	1.2114
								1504	1.61	1.2129
								1604	1.42	1.2143
								1704	1.22	1.2155
								1804	1.07	1.2165
								1904	0.95	1.2174
								2004	0.87	1.2182
								2104	0.79	1.2189
								2204	0.74	1.2196
								2304	0.66	1.2202
								2400	0.61	1.2207

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED D

FIESSEL (WACO), TEXAS WATERSHED G

LOCATION: Melmain and Falls Counties, Texas; 16 mi. S.E. of Waco; Brazos River Basin.

AREA: 4380.00 acres 6.84 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								FIESSEL (WACO), TEXAS WATERSHED G								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	4.88	3.38	3.03	4.66	6.91	8.42	4.61	1.28	4.72	0.93	6.74	0.65	50.21		
	O	3.236	1.592	1.886	1.809	2.660	4.159	1.277	0.0	0.078	0.0	1.043	0.400	18.139		
STA AV	P	2.36	2.90	2.07	3.65	3.67	4.81	1.79	2.95	3.30	2.66	3.23	2.58	35.98		
	O	0.774	0.793	0.568	0.732	0.913	1.104	0.202	0.206	0.380	0.206	0.571	0.541	6.890		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUME OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date		1 Hour Date		2 Hours Date		Maximum Volume for Selected Time Interval									
		Rate		Vol.		Vol.		6 Hours Date		12 Hours Date		1 Day Date		2 Days Date		8 Days Date
								Vol.		Vol.		Vol.		Vol.		Vol.
1968	6- 2	0.375	6- 2	0.341	6- 2	0.581	6- 2	1.218	5-10	1.633	6- 2	1.777	6- 2	2.156	5-10	2.412
MAXIMUMS FOR PERIOD OF RECORD																
	3-29	0.950	3-29	0.910	3-29	1.720	3-29	3.390	3-29	3.940	3-29	4.030	3-29	4.740	11-22	4.820
	1965		1965		1965		1965		1965		1965		1965		1940	

NOTES: Watershed conditions: 36% pasture; 5% tilled, but not planted; 4% cotton; 5% corn; 4% fall planted small grain, largely oats; 5% sorghum; 2% gravel and paved roads; 39% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)						FIESSEL (WACO), TEXAS WATERSHED G							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.24S	1.46	0.0	1.61	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.17	0.0	3.13	1.65	0.0	0.0	0.0	0.92	0.01E	
3	0.20	0.0	0.0	0.4	1.67	0.42	0.0	0.0	0.40	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	1.04	0.0	0.0	0.0	
5	0.56	0.0	0.25	0.0	0.0	0.01E	0.0	0.0	0.06	0.04E	0.0	0.0	
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	1.11S	0.0	0.06E	0.0	0.33E	0.0	0.70	0.0	0.0	0.0	0.90	0.0	
9	0.0 S	0.0	0.0	0.12E	0.59	0.0	0.45	0.0	0.0	0.88	0.0	0.0	
10	0.0	0.0 E	0.94	0.0	2.35	0.0	0.23E	0.0	0.0	0.0	0.0	0.0	
11	0.01E	0.0	1.39	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.00E	0.0	0.0	1.70	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.19	
13	0.0	0.03E	0.0	0.0	0.01E	0.0	0.76	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.59	0.0	0.0	0.0	0.0 E	0.02E	0.0	1.16	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	1.06	0.0	
16	0.0	0.0	0.0	0.0	0.02E	0.27	0.0	0.0	0.0	0.01E	0.0	0.0	
17	0.0	0.02E	0.0	0.0	1.36	0.0	0.0	0.0	1.26	0.0	0.0	0.0	
18	0.95	0.01	0.0	0.0	0.0	0.01F	0.0	0.0	0.0	0.0	0.0	0.02E	
19	0.0	0.37	0.10F	0.44	0.0	0.0	0.76E	0.0	0.0	0.0	0.0	0.0	
20	0.24	0.0	0.21	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.07	
21	1.27	0.6	0.0	0.21	0.0	0.0	0.00E	0.0	0.10E	0.0	0.0	0.17	
22	0.0	0.12S	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.14	
23	0.01E	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.03E	0.0	
24	0.0	0.0	0.0	0.0	0.0	2.65	0.0	0.0	0.38	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.8	0.87	0.01E	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.83E	0.0	0.0	1.08	0.0	
27	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	1.22	0.05E	
28	0.03E	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	1.51	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	4.88	3.38	3.03	4.66	6.91	8.42	4.61	1.28	4.72	0.93	6.74	0.65	
STA AV	2.36	2.90	2.07	3.65	3.67	4.81	1.79	2.95	3.30	2.66	3.23	2.58	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 15 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED G												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	6.04	197.26	1.10	11.38	0.0	0.01	0.04	0.0	0.0	0.0	0.0	67.83
2	4.01	9.35	0.65	112.67	0.0	152.19	65.24	0.0	0.0	0.0	0.0	3.35
3	6.02	2.32	0.44	33.50	0.54	242.63	42.90	0.0	0.0	0.0	0.0	1.02
4	3.92	1.20	0.25	9.58	7.57	17.26	1.25	0.0	0.0	0.0	0.0	0.37
5	26.33	0.84	0.31	1.03	0.51	2.48	0.27	0.0	0.0	0.0	0.0	0.19
6	22.87	0.52	2.23	0.42	0.07	0.93	0.10	0.0	0.0	0.0	0.0	0.11
7	2.98	0.34	1.28	0.28	0.01	0.39	0.05	0.0	0.0	0.0	0.0	0.06
8	1.97	0.25	0.70	0.22	1.07	0.20	0.58	0.0	0.0	0.0	0.0	0.04
9	84.95	0.23	0.94	0.25	0.43	0.11	15.82	0.0	0.0	0.0	0.0	0.03
10	56.54	0.25	7.34	0.25	326.75	0.06	1.55	0.0	0.0	0.0	0.0	0.02
11	16.82	0.26	305.89	0.15	6.28	0.04	2.51	0.0	0.0	0.0	0.0	0.03
12	4.73	0.18	17.14	113.96	2.40	0.03	0.55	0.0	0.0	0.0	0.0	0.05
13	1.77	0.16	2.38	34.17	1.03	0.02	51.26	0.0	0.0	0.0	0.0	0.05
14	0.96	3.59	1.00	2.21	0.50	0.01	4.19	0.0	0.0	0.0	0.0	0.02
15	0.78	4.10	0.63	0.63	0.28	0.00	0.57	0.0	0.0	0.0	15.10	0.01
16	0.54	1.49	0.50	0.31	0.18	0.00	0.16	0.0	0.0	0.0	1.78	0.01
17	0.46	0.81	0.40	0.29	111.10	0.02	0.05	0.0	13.37	0.0	0.19	0.02
18	73.56	0.70	0.38	0.25	21.54	0.00	0.02	0.0	0.87	0.0	0.02	0.02
19	19.77	8.63	0.48	1.48	1.34	0.0 T	45.15	0.0	0.03	0.0	0.0 T	0.00
20	13.62	3.55	0.87	6.40	0.33	0.01	2.28	0.0	0.0	0.0	0.0	0.00
21	167.79	1.78	0.88	1.52	0.15	0.03	0.30	0.0	0.0	0.0	0.0	0.03
22	58.15	1.37	0.34	1.33	0.09	0.03	0.09	0.0	0.0	0.0	0.0	0.13
23	5.65	0.95	0.19	0.43	0.06	0.03	0.04	0.0	0.0	0.0	0.0	0.06
24	2.31	0.83	0.15	0.14	0.03	277.82	0.03	0.0	0.0	0.0	0.0	0.03
25	1.50	0.53	0.11	0.06	0.09	9.68	0.02	0.0	0.0	0.0	0.0	0.02
26	1.06	0.36	0.08	0.03	3.92	58.79	0.02	0.0	0.0	0.0	0.00	0.02
27	0.89	0.26	0.07	0.02	2.51	1.94	0.02	0.0	0.0	0.0	65.24	0.02
28	1.38	46.33	0.08	0.02	0.68	0.41	0.00	0.0	0.0	0.0	32.61	0.01
29	1.54	4.46	0.07	0.02	0.10	0.15	0.0 T	0.0	0.0	0.0	1.66	0.01
30	2.67		0.07	0.00	0.03	0.06	0.0	0.0	0.0	0.0	75.30	0.01
31	3.86		0.06		0.01		0.0	0.0	0.0	0.0		0.00
MEAN	19.207	10.099	11.194	11.099	15.793	25.510	7.582	0.0	0.475	0.0	6.397	2.373
INCHES	3.236	1.592	1.886	1.809	2.660	4.159	1.277	0.0	0.078	0.0	1.043	0.400
STA AV	0.774	0.793	0.568	0.732	0.813	1.104	0.202	0.206	0.380	0.206	0.571	0.541

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 15 yr period.

1968	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED G						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 12 - 13, 1968										
RG	26-A		RG	26-A						
4-12	0.0	0.000	4-12	1326	0.0	0.0	4-12	1330	0.10	0.0
				1332	0.3000	0.03		1345	0.12	0.0
				1338	0.3000	0.06		1400	0.16	0.0
				1343	0.2400	0.08		1415	0.20	0.0
				1348	0.6000	0.13		1430	0.23	0.0
WATERSHED CONDITIONS:										
36% pasture, all classes;				1358	0.4200	0.20		1445	0.24	0.0
9% tilled, but not planted;				1408	0.4200	0.27		1500	0.27	0.0
5% corn, 2 to 4 inches high;				1418	0.1800	0.30		1515	0.30	0.0
4% fall planted small grain,				1500	0.0429	0.33		1530	0.35	0.0
mostly oats, 8 to 10 inches				1504	0.9000	0.39		1540	0.44	0.0
high; 5% row grain sorghum,										
1 to 2 inches high; 2%				1506	1.2000	0.43		1545	0.91	0.0
gravel and paved roads; 39%				1518	0.1500	0.46		1550	1.15	0.0
other. Approx. 90% of				1528	0.1800	0.49		1555	1.45	0.0
other is Johnsongrass and				1533	0.2400	0.51		1600	1.90	0.0
weeds in conservation re-				1538	0.6000	0.56		1605	2.88	0.0
serve, neither tilled nor										
grazed.				1540	1.2000	0.60		1610	4.59	0.0001
				1548	0.3000	0.64		1615	6.65	0.0002
				1558	0.1200	0.66		1620	8.19	0.0003
				1608	0.1200	0.68		1625	9.63	0.0005
				1614	0.3000	0.71		1630	11.50	0.0007
				1620	0.5000	0.76		1635	13.59	0.0009
				1622	2.7007	0.85		1640	17.71	0.0012
				1624	1.4997	0.90		1645	20.19	0.0016
				1628	0.7500	0.95		1650	26.02	0.0020
				1630	1.1997	0.99		1655	32.15	0.0025
				1632	3.3008	1.10		1700	46.51	0.0032
				1634	0.5999	1.12		1705	56.12	0.0042
				1638	1.3500	1.21		1710	84.00	0.0055
				1643	0.6000	1.26		1715	113.00	0.0074
				1646	2.5998	1.39		1720	146.00	0.0098
				1648	1.8004	1.45		1725	188.00	0.0129
				1650	4.4991	1.60		1730	216.00	0.0167
				1652	0.9002	1.63		1735	244.00	0.0210
				1658	0.1000	1.64		1740	263.00	0.0258
				1728	0.1800	1.73		1745	284.00	0.0310

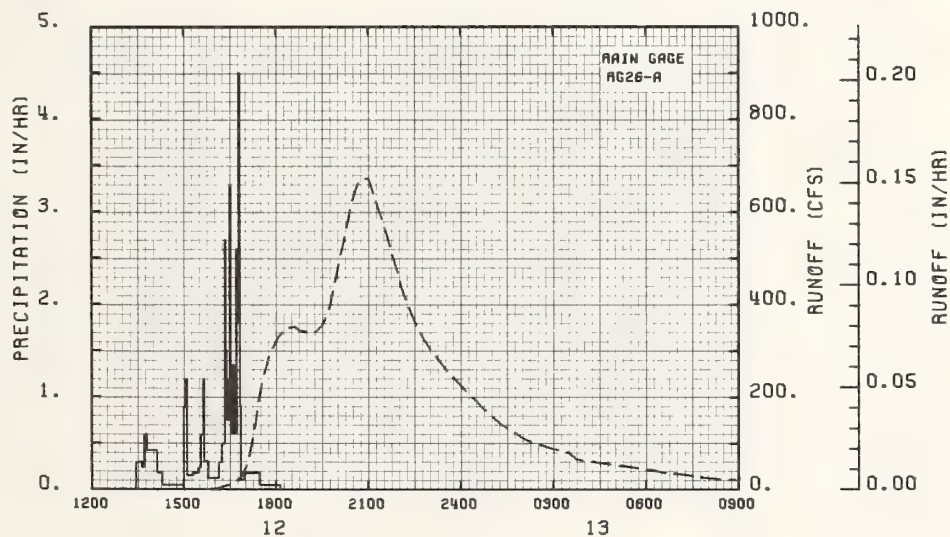
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.

1968 SELECTED RUNOFF EVENT			PIESEL (WACO), TEXAS			WATERSHED G				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
			1808		0.0450	1.76	4-12	1750	301.00	0.0365
								1755	308.00	0.0422
								1800	321.00	0.0481
								1805	332.00	0.0543
								1810	338.00	0.0606
								1815	344.00	0.0670
								1830	351.00	0.0867
								1835	352.00	0.0933
								1845	342.00	0.1064
								1900	339.00	0.1257
								1915	338.00	0.1449
								1930	356.00	0.1645
								1935	367.00	0.1713
								1940	383.00	0.1784
								1945	396.00	0.1858
								1950	422.00	0.1935
								1955	446.00	0.2017
								2000	474.00	0.2104
								2005	502.00	0.2196
								2010	524.00	0.2293
								2015	554.00	0.2395
								2020	580.00	0.2502
								2025	608.00	0.2614
								2030	628.00	0.2731
								2035	646.00	0.2851
								2040	662.00	0.2974
								2045	670.00	0.3100
								2100	672.00	0.3480
								2115	620.00	0.3846
								2130	572.00	0.4183
								2145	512.00	0.4490
								2155	476.00	0.4676
								2205	434.00	0.4848
								2215	402.00	0.5006
								2225	376.00	0.5153
								2235	350.00	0.5290
								2245	328.00	0.5418
								2300	303.00	0.5597
								2315	281.00	0.5762
								2330	259.00	0.5915
								2345	241.00	0.6057
								2400	223.00	0.6188
							4-13	15	205.00	0.6309
								30	190.00	0.6421
								45	172.00	0.6523
								100	157.00	0.6616
								115	142.00	0.6701
								130	131.00	0.6778
								145	121.00	0.6849
								200	110.00	0.6914
								215	101.00	0.6974
								230	96.00	0.7030
								245	91.00	0.7083
								300	86.00	0.7133
								315	82.00	0.7181
								330	78.00	0.7226
								345	63.93	0.7266
								400	60.85	0.7301
								415	58.93	0.7335
								430	56.08	0.7368
								445	53.57	0.7399
								500	51.64	0.7429
								515	49.54	0.7458
								530	47.37	0.7485
								545	44.67	0.7511
								600	42.40	0.7536
								615	39.67	0.7559
								630	36.49	0.7581
								645	34.45	0.7601
								700	32.40	0.7620
								715	30.57	0.7638
								730	28.01	0.7655
								738	25.54	0.7663
								753	24.17	0.7677
								808	22.69	0.7690

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.

1968	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED G						
ANTECEDENT CONDITIONS			RAINFALL			Acc. (inches)	RUNOFF			Acc. (inches)
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)		Date Mo-Day	Time of Day	Rate (cfs)	
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
							4-13	823	21.49	0.7703
								853	19.78	0.7726
								923	18.61	0.7748
								953	17.43	0.7768
								1023	16.62	0.7787
								1053	15.16	0.7805
								1123	14.47	0.7822
								1153	13.70	0.7838
								1225	12.99	0.7854
								1255	12.21	0.7868
								1325	11.59	0.7881
								1355	10.97	0.7894
								1425	10.34	0.7906
								1455	9.74	0.7917
								1555	8.69	0.7938
								1655	7.75	0.7957
								1755	6.89	0.7974
								1925	5.88	0.7996
								2055	5.06	0.8015
								2225	4.44	0.8031
								2400	3.93	0.8046

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED G

RIESEL (WACO), TEXAS WATERSHED W-1

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 176.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)															RIESEL (WACO), TEXAS WATERSHED W-1														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	5.10	3.31	3.27	4.07	6.62	8.33	4.72	0.91	3.06	0.86	5.91	0.64	46.80															
	O	2.470	1.229	2.073	0.947	2.513	1.865	1.146	0.006	0.011	0.003	0.348	0.133	14.745															
STA AV	P	2.33	2.73	2.51	4.03	4.42	3.49	1.59	2.09	2.51	2.50	3.05	2.54	33.78															
	O	0.525	0.620	0.657	1.056	1.291	0.657	0.124	0.097	0.146	0.184	0.408	0.449	6.214															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge				1 Hour		2 Hours		Maximum Volume for Selected Time Interval																			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		6- 2	1.083	6- 2	0.803	6- 2	1.025	5-10	1.293	3-10	1.718	3-10	1.872	6- 2	1.923	5- 9	2.239												
MAXIMUMS FOR PERIOD OF RECORD																													
		5- 1	4.510	5- 1	2.990	5- 1	5.570	5- 1	6.910	5- 1	6.920	5- 1	7.050	4-30	9.200	4-29	11.06												
		1944		1944		1944		1944		1944		1944		1944		1944													

NOTES: Watershed conditions: 38% cotton; 17% fall planted oats; 14% row grain sorghum; 27% pasture; 3% roads; and 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve; but neither tilled nor grazed. Straight row cultivation without terraces. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.6-6 (Revised). Precipitation and runoff records began July 1937. Precipitation data from Thiessen method using rain gages 75A, 89, W-2, W-2A, and W-5A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.19S	1.30	0.0	1.44	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.11	0.0	2.87	1.05	0.0	0.0	0.0	0.56	0.02E		
3	0.16	0.0	0.0	0.28	0.56	0.52	0.0	0.0	0.18	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.73	0.0	0.0	0.0		
5	0.87	0.0	0.26	0.0	0.0	0.10E	0.0	0.0	0.06	0.01E	0.0	0.0		
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.02S	0.0	0.09E	0.0	0.65	0.0	0.68	0.0	0.0	0.0	0.84	0.0		
9	0.0 S	0.0	0.0	0.11E	0.64	0.0	1.32	0.0	0.0	0.81	0.0	0.0		
10	0.0	0.0 F	1.36	0.0	2.15	0.0	0.02E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.28	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.52	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.21		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.15	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.03	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.69	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.15	0.0	0.0	0.0	0.04E	0.0	0.0		
17	0.0	0.01E	0.0	0.0	1.49	0.0	0.0	0.0	0.45	0.0	0.0	0.0		
18	0.95	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E		
19	0.0	0.40	0.06E	0.32	0.0	0.0	1.51	0.0	0.0	0.0	0.0	0.0		
20	0.27	0.0	0.16	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.08E		
21	1.30	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.08F	0.0	0.0	0.17		
22	0.0	0.10S	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0	0.13		
23	0.01E	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0 E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.51	0.0	0.0	0.26	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.81	1.11	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.04E	0.0	0.0	1.13	0.0		
27	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	1.20	0.04E		
28	0.11E	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.21		0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	1.47	0.0		
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0		
TOTAL	5.10	3.31	3.27	4.07	6.62	8.33	4.72	0.91	3.06	0.86	5.91	0.64		
STA AV	2.33	2.73	2.51	4.03	4.42	3.49	1.59	2.09	2.51	2.50	3.05	2.54		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A, 89, W-2, W-2A, and W-5A. Records began July 1937. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.082	6.109	0.033	0.660	0.010	0.011	0.005	0.002	0.001	0.0 T	0.0 T	0.440
2	0.035	0.114	0.038	1.170	0.010	10.686	0.566	0.001	0.001	0.0 T	0.003	0.045
3	0.065	0.054	0.029	0.460	0.028	3.588	0.095	0.001	0.006	0.0 T	0.001	0.018
4	0.030	0.040	0.026	0.073	0.023	0.208	0.009	0.011	0.012	0.0	0.0 T	0.014
5	1.352	0.034	0.058	0.022	0.010	0.116	0.006	0.006	0.008	0.0 T	0.0 T	0.015
6	0.327	0.026	0.155	0.021	0.007	0.070	0.005	0.002	0.002	0.001	0.0 T	0.016
7	0.020	0.018	0.056	0.022	0.008	0.026	0.005	0.002	0.0 T	0.0 T	0.0 T	0.018
8	0.002	0.019	0.046	0.024	0.094	0.021	0.049	0.001	0.001	0.0 T	0.007	0.016
9	1.923	0.022	0.086	0.033	0.107	0.018	4.667	0.001	0.0 T	0.013	0.001	0.017
10	1.881	0.026	3.535	0.025	10.511	0.015	0.043	0.001	0.0 T	0.002	0.001	0.018
11	0.479	0.024	10.430	0.018	0.217	0.012	0.019	0.001	0.0	0.001	0.0 T	0.020
12	0.127	0.020	0.257	3.507	0.105	0.011	0.018	0.004	0.0	0.001	0.0 T	0.028
13	0.044	0.021	0.051	0.193	0.065	0.010	0.024	0.002	0.0	0.001	0.0 T	0.015
14	0.030	0.330	0.038	0.033	0.037	0.008	0.013	0.001	0.020	0.0 T	0.0 T	0.013
15	0.028	0.045	0.035	0.019	0.031	0.007	0.010	0.001	0.015	0.0 T	0.007	0.014
16	0.023	0.047	0.037	0.028	0.030	0.009	0.008	0.0 T	0.002	0.0 T	0.001	0.016
17	0.025	0.046	0.033	0.029	5.830	0.009	0.006	0.0 T	0.008	0.0 T	0.0 T	0.017
18	1.977	0.051	0.038	0.030	0.148	0.008	0.006	0.0 T	0.001	0.0 T	0.0 T	0.017
19	0.315	0.428	0.048	0.163	0.026	0.008	2.813	0.0 T	0.0 T	0.0 T	0.0 T	0.014
20	0.795	0.081	0.071	0.077	0.021	0.026	0.045	0.0 T	0.0 T	0.0 T	0.0 T	0.017
21	7.148	0.077	0.030	0.206	0.020	0.014	0.014	0.0 T	0.0 T	0.0 T	0.0 T	0.027
22	0.734	0.057	0.023	0.062	0.019	0.020	0.009	0.0 T	0.0 T	0.0 T	0.001	0.029
23	0.107	0.067	0.025	0.023	0.016	0.022	0.007	0.0 T	0.0 T	0.0 T	0.001	0.015
24	0.059	0.059	0.024	0.017	0.014	9.427	0.006	0.0 T	0.004	0.0 T	0.0 T	0.014
25	0.048	0.043	0.022	0.015	0.455	2.411	0.005	0.0 T	0.002	0.0 T	0.0 T	0.016
26	0.040	0.031	0.017	0.016	0.578	1.776	0.006	0.0 T	0.0 T	0.0 T	0.018	0.018
27	0.045	0.026	0.016	0.016	0.101	0.021	0.005	0.001	0.0 T	0.0 T	0.143	0.019
28	0.094	1.065	0.017	0.018	0.024	0.011	0.004	0.0 T	0.0 T	0.0 T	0.084	0.015
29	0.082	0.059	0.017	0.015	0.012	0.008	0.004	0.0	0.0 T	0.0 T	0.007	0.016
30	0.203		0.018	0.010	0.011	0.006	0.004	0.003	0.0 T	0.0 T	2.298	0.016
31	0.144		0.017		0.011		0.002	0.004		0.0 T		0.011
MEAN	0.5891	0.3135	0.4944	0.2335	0.5993	0.9527	0.2738	0.0015	0.0028	0.0006	0.0859	0.0317
INCHES	2.470	1.229	2.073	0.947	2.513	3.865	1.146	0.006	0.011	0.003	0.348	0.133
STA AV	0.525	0.620	0.657	1.056	1.291	0.657	0.124	0.097	0.146	0.184	0.408	0.449

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.135236. Records began July 1937. STA AV based on 30 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-1												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 12 - 13, 1968												
4-12	RG W-2 0.0	0.001	4-12	RG W-2	0.0	0.0	4-12	1330	0.02	0.0		
				1323	0.0	0.0		1335	0.03	0.0		
				1329	0.5000	0.05		1340	0.04	0.0		
				1339	0.3600	0.11		1350	0.06	0.0		
				1345	0.4000	0.15		1400	0.07	0.0001		
				1349	0.6000	0.19						
				1359	0.3000	0.24		1405	0.09	0.0001		
				1409	0.3600	0.30		1410	0.10	0.0001		
				1419	0.1800	0.33		1420	0.11	0.0002		
				1449	0.0200	0.34		1436	0.11	0.0004		
				1509	0.0600	0.36		1438	0.11	0.0004		
				1515	0.0	0.36		1440	0.13	0.0004		
				1519	0.3000	0.38		1442	0.16	0.0004		
				1524	0.2400	0.40		1445	0.19	0.0004		
				1529	0.2400	0.42		1450	0.21	0.0005		
				1533	0.4500	0.45		1510	0.21	0.0009		
				1537	2.2500	0.60		1519	0.21	0.0011		
				1539	1.5000	0.65		1522	0.25	0.0012		
				1544	0.3600	0.68		1527	0.25	0.0013		
				1549	0.2400	0.70		1530	0.28	0.0014		
				1554	0.2400	0.72		1533	0.32	0.0015		
				1559	0.1200	0.73		1536	0.37	0.0016		
				1604	0.1200	0.74		1537	0.42	0.0016		
				1609	0.2400	0.76		1538	0.52	0.0016		
				1614	0.6000	0.81		1539	0.65	0.0017		
				1619	0.3600	0.84		1540	0.74	0.0018		
				1623	0.4500	0.87		1541	0.81	0.0019		
				1625	0.3001	0.88		1543	0.87	0.0021		
				1629	1.0500	0.95		1545	0.97	0.0023		
				1631	2.0996	1.02		1548	1.09	0.0026		
				1639	0.5250	1.09		1551	1.17	0.0029		
				1643	0.4500	1.12		1555	1.71	0.0034		
				1645	1.1997	1.16		1601	2.14	0.0045		
				1647	3.6009	1.28		1606	2.67	0.0056		
				1649	3.2993	1.39		1608	3.04	0.0061		
				1651	0.9002	1.42		1610	3.81	0.0067		

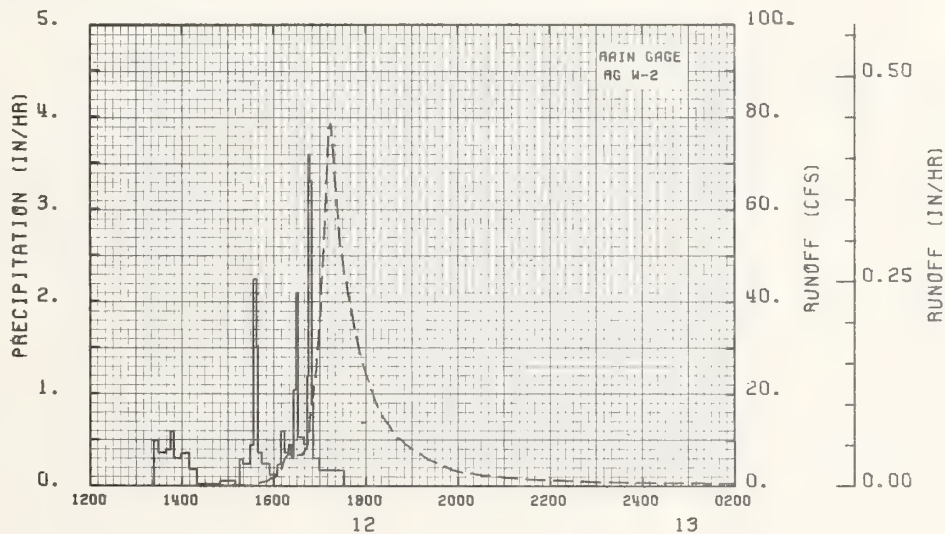
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-1					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)								
4-12	1659	0.3000	1.46	4-12	1611	4.46	0.0071	
	1731	0.1687	1.55		1612	5.14	0.0076	
					1614	6.03	0.0086	
					1616	6.57	0.0098	
					1618	7.00	0.0111	
					1621	7.09	0.0131	
					1626	7.13	0.0164	
					1628	6.74	0.0177	
					1631	6.74	0.0196	
					1636	6.79	0.0228	
					1639	7.44	0.0248	
					1641	7.99	0.0262	
					1643	8.69	0.0278	
					1644	9.36	0.0286	
					1645	10.70	0.0296	
					1646	12.77	0.0307	
					1647	14.96	0.0320	
					1648	16.43	0.0335	
					1649	17.89	0.0351	
					1650	18.89	0.0368	
					1651	19.85	0.0386	
					1652	21.15	0.0405	
					1653	22.75	0.0426	
					1654	23.91	0.0448	
					1655	25.65	0.0471	
					1656	27.66	0.0496	
					1657	29.95	0.0523	
					1658	32.15	0.0552	
					1659	34.01	0.0583	
					1700	36.16	0.0616	
					1701	38.92	0.0651	
					1702	43.65	0.0690	
					1703	46.91	0.0732	
					1704	50.10	0.0778	
					1706	55.64	0.0877	
					1707	59.56	0.0931	
					1708	63.37	0.0989	
					1709	67.17	0.1050	
					1710	70.84	0.1115	
					1711	75.22	0.1183	
					1712	77.02	0.1255	
					1714	78.72	0.1401	
					1715	77.98	0.1475	
					1716	75.32	0.1547	
					1718	70.12	0.1683	
					1720	66.26	0.1812	
					1722	61.30	0.1931	
					1724	57.54	0.2043	
					1726	52.57	0.2146	
					1728	50.64	0.2243	
					1730	48.39	0.2336	
					1732	45.99	0.2424	
					1735	43.82	0.2551	
					1738	40.59	0.2670	
					1741	38.10	0.2780	
					1744	35.28	0.2883	
					1747	32.46	0.2979	
					1750	30.40	0.3068	
					1753	28.39	0.3151	
					1756	26.44	0.3228	
					1759	24.81	0.3300	
					1802	23.36	0.3368	
					1805	21.88	0.3432	
					1808	20.49	0.3492	
					1811	18.89	0.3547	
					1816	16.79	0.3631	
					1821	15.19	0.3706	
					1826	13.93	0.3774	
					1831	12.93	0.3837	
					1836	11.32	0.3894	
					1841	10.30	0.3945	
					1846	9.90	0.3993	
					1851	9.02	0.4037	
					1901	7.85	0.4116	
					1911	6.87	0.4185	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED W-1		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)								
							4-12	1921
								5.74
								0.4244
								1931
								5.03
								0.4295
								1941
								4.35
								0.4339
								1951
								3.54
								0.4376
								2001
								3.01
								0.4407
								2010
								2.85
								0.4432
								2025
								2.45
								0.4469
								2040
								2.18
								0.4502
								2100
								1.85
								0.4540
								2130
								1.44
								0.4586
								2200
								1.28
								0.4624
								2230
								1.06
								0.4657
								2300
								0.84
								0.4684
								2330
								0.78
								0.4707
								2400
								0.68
								0.4728
							4-13	100
								0.56
								0.4763
								200
								0.46
								0.4792
								300
								0.38
								0.4816
								400
								0.34
								0.4836
								500
								0.30
								0.4854
								600
								0.27
								0.4870
								900
								0.21
								0.4911
								1200
								0.15
								0.4941
								1300
								0.12
								0.4949
								1400
								0.11
								0.4955
								1500
								0.09
								0.4960
								1600
								0.08
								0.4965
								1700
								0.06
								0.4969
								1800
								0.06
								0.4972
								2000
								0.05
								0.4978
								2400
								0.04
								0.4988

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED W-1

RIESEL (WACO), TEXAS WATERSHED W-2

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 130.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED W-2																	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																		
1968	5.18	3.20	3.18	3.96	6.34	7.67	3.49	0.94	2.98	0.83	5.95	0.58	44.30																		
	3.048	1.768	2.458	1.433	2.494	3.454	0.871	0.113	0.087	0.029	0.461	0.308	16.524																		
STA AV	2.29	2.71	2.44	4.03	4.37	3.43	1.55	2.16	2.53	2.48	3.01	2.52	13.50																		
	0.611	0.734	0.747	1.072	1.300	0.615	0.125	0.062	0.119	0.165	0.412	0.552	6.514																		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval																									
Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1968	6-24	0.851	6-24	0.681	6-24	0.963	6-24	1.220	3-10	1.673	3-10	1.879	3-10	1.944	5-10	2.099															
MAXIMUMS FOR PERIOD OF RECORD																															
5-1	4.830	5-1	2.860	5-1	5.400	5-1	6.910	5-1	6.970	5-1	7.120	4-30	9.260	4-29	10.96																
1944		1944		1944		1944		1944		1944		1944		1944		1944		1944		1944		1944									

NOTES: Watershed conditions: 56% pasture; 18% row grain sorghum; 17% fall planted small grain, largely oats; 5% gravel and paved roads; 4% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. Cropland farmed on contour, not terraced. Modified conservation applied 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4, W-5A, and W-6. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.15S	1.32	0.0	1.35	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.10	0.0	2.25	0.47	0.0	0.0	0.0	0.0	0.57	0.02P		
3	0.17	0.0	0.0	0.26	0.44	0.51	0.0	0.0	0.16	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.70	0.0	0.0	0.0	0.0		
5	0.96	0.0	0.26	0.0	0.0	0.13E	0.0	0.0	0.06	0.01P	0.0	0.0	0.0		
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.00S	0.0	0.10E	0.0	0.56	0.0	0.64	0.0	0.0	0.0	0.81	0.0	0.0		
9	0.0S	0.0	0.0	0.10E	0.59	0.0	1.39	0.0	0.0	0.75	0.0	0.0	0.0		
10	0.0	0.0E	1.23	0.0	2.04	0.0	0.01P	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.32	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0E	0.0	0.0	1.49	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.17		
13	0.0	0.04P	0.0	0.0	0.02P	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.60	0.0	0.0	0.0	0.0F	0.0	0.0	0.49	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.71	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.02P	0.11P	0.0	0.0	0.0	0.06P	0.0	0.0	0.0		
17	0.0	0.0E	0.0	0.0	1.55	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0		
18	0.96	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0E		
19	0.0	0.41	0.05P	0.31	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.6	0.0	0.16	0.0	0.0	0.4F	0.0	0.0	0.0	0.0	0.0	0.0	0.05E		
21	1.29	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.17		
22	0.0	0.10S	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.0	0.15		
23	0.11P	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0P	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.38	0.0	0.0	0.35	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.85	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.04E	0.0	0.0	1.15	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	1.21	0.03P	0.0		
28	0.11	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.1P	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	1.49	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.18	3.20	3.18	3.96	6.34	7.67	3.49	0.94	2.98	0.83	5.95	0.58	44.30		
STA AV	2.29	2.71	2.44	4.03	4.37	3.43	1.55	2.16	2.53	2.48	3.01	2.52	13.50		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, W-5A, and W-6. Records began July 1937. STA AV based on 30 yr period.

1968 MEAN DAILY DISCHARGE (cfs)												RYESFL (WACO), TEXAS WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.163	4.671	0.091	0.864	0.049	0.061	0.072	0.074	0.012	0.008	0.0	0.281	
2	0.088	0.164	0.100	1.413	0.089	3.874	0.111	0.032	0.010	0.005	0.006	0.056	
3	0.130	0.111	0.092	0.275	0.068	2.720	0.085	0.032	0.023	0.005	0.009	0.047	
4	0.081	0.103	0.088	0.105	0.063	0.243	0.069	0.053	0.037	0.003	0.075	0.048	
5	1.545	0.100	0.112	0.079	0.042	0.146	0.067	0.042	0.032	0.004	0.007	0.050	
6	0.284	0.094	0.222	0.082	0.034	0.124	0.068	0.031	0.014	0.010	0.007	0.051	
7	0.053	0.082	0.102	0.083	0.039	0.090	0.068	0.025	0.012	0.008	0.003	0.047	
8	0.046	0.087	0.095	0.089	0.085	0.086	0.136	0.024	0.011	0.008	0.036	0.047	
9	2.457	0.092	0.131	0.096	0.095	0.080	2.459	0.021	0.009	0.040	0.017	0.051	
10	0.855	0.105	2.124	0.082	6.752	0.074	0.098	0.020	0.006	0.013	0.010	0.051	
11	0.256	0.103	8.311	0.073	0.136	0.070	0.091	0.021	0.006	0.010	0.007	0.052	
12	0.146	0.095	0.316	2.790	0.104	0.068	0.095	0.029	0.007	0.008	0.002	0.059	
13	0.102	0.094	0.105	0.282	0.092	0.065	0.095	0.024	0.008	0.007	0.003	0.046	
14	0.099	0.517	0.099	0.096	0.082	0.060	0.077	0.020	0.056	0.006	0.005	0.043	
15	0.096	0.174	0.098	0.085	0.079	0.062	0.072	0.016	0.045	0.005	0.033	0.045	
16	0.093	0.116	0.095	0.093	0.079	0.068	0.072	0.012	0.015	0.004	0.009	0.046	
17	0.093	0.112	0.095	0.093	4.393	0.068	0.070	0.012	0.028	0.005	0.006	0.048	
18	1.805	0.117	0.102	0.093	0.194	0.060	0.068	0.013	0.012	0.002	0.005	0.044	
19	0.261	0.507	0.105	0.131	0.084	0.055	0.228	0.012	0.010	0.001	0.005	0.038	
20	0.452	0.152	0.117	0.103	0.074	3.094	0.087	0.010	0.010	0.002	0.004	0.044	
21	5.475	0.141	0.085	0.230	0.080	0.065	0.073	0.010	0.012	0.002	0.004	0.060	
22	0.760	0.123	0.080	0.100	0.077	0.076	0.064	0.010	0.014	0.002	0.004	0.061	
23	0.195	0.134	0.083	0.072	0.070	0.075	0.059	0.010	0.011	0.001	0.003	0.038	
24	0.123	0.119	0.081	0.069	0.069	7.048	0.054	0.010	0.021	0.001	0.002	0.038	
25	0.115	0.112	0.078	0.060	0.115	1.578	0.051	0.011	0.016	0.0	0.001	0.039	
26	0.107	0.106	0.068	0.063	0.245	1.540	0.052	0.014	0.009	0.0	0.044	0.043	
27	0.107	0.087	0.068	0.060	0.105	0.089	0.050	0.013	0.007	0.0	0.404	0.045	
28	0.157	1.133	0.070	0.064	0.074	0.080	0.046	0.008	0.007	0.0	0.082	0.037	
29	0.115	0.110	0.070	0.052	0.065	0.075	0.046	0.008	0.007	0.0	0.019	0.037	
30	0.206	0.074	0.051	0.064	0.064	0.072	0.041	0.025	0.007	0.0	1.775	0.046	
31	0.161	0.071	0.063	0.063	0.063	0.034	0.020	0.020	0.0	0.0	0.044	0.044	
MEAN	0.5370	0.3331	0.4331	0.2609	0.4355	0.6288	0.1534	0.0200	0.0158	0.0051	0.0839	0.0542	
INCHES	3.048	1.768	2.458	1.433	2.494	3.454	0.871	0.113	0.087	0.029	0.461	0.308	
STA AV	0.511	0.734	0.747	1.072	1.300	0.615	0.125	0.062	0.119	0.165	0.412	0.552	

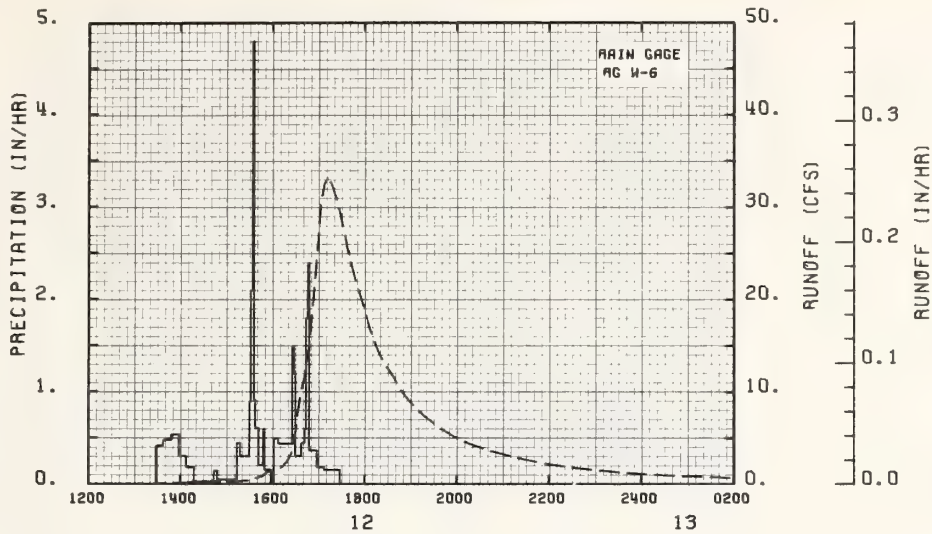
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.183088. Records began July 1937. STA AV based on 30 yr period.

1968 SELECTED RUNOFF EVENT				RYESFL (WACO), TEXAS WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968											
4-12	RG W-6	0.008	4-12	1128	0.0	0.0	4-12	1328	0.09	0.0	
				1138	0.4200	0.07		1338	0.11	0.0001	
				1148	0.4800	0.15		1348	0.12	0.0002	
				1158	0.5400	0.24		1353	0.15	0.0003	
				1408	0.3000	0.29		1358	0.17	0.0004	
WATERSHED CONDITIONS:											
17% fall planted oats, 8 to				1418	0.1800	0.32		1403	0.19	0.0005	
10 inches high; 18% row				1444	0.0231	0.33		1408	0.22	0.0006	
grain sorghum, 1 to 2 inches				1448	0.1500	0.34		1418	0.25	0.0009	
high; 56% pasture, Bermuda-				1514	0.0462	0.36		1428	0.28	0.0012	
grass, good cover, moderately				1518	0.4500	0.39		1438	0.29	0.0016	
grazed; 5% gravel roads; 4%				1530	0.3000	0.45		1448	0.31	0.0020	
Johnsongrass, not tilled or				1532	0.9000	0.48		1458	0.32	0.0024	
grazed. Cropland farmed on				1534	2.1000	0.55		1508	0.33	0.0028	
contour, not terraced.				1536	4.8001	0.71		1518	0.36	0.0032	
				1538	0.9000	0.74		1523	0.39	0.0034	
				1542	0.6000	0.78		1528	0.42	0.0037	
				1548	0.2000	0.80		1533	0.45	0.0040	
				1550	0.6000	0.82		1535	0.49	0.0041	
				1558	0.1500	0.84		1537	0.55	0.0042	
				1602	0.0	0.84		1538	0.64	0.0043	
				1608	0.5000	0.89		1540	0.70	0.0045	
				1626	0.4334	1.02		1543	0.78	0.0048	
				1628	1.4997	1.07		1545	0.82	0.0050	
				1640	1.1997	1.11		1547	0.92	0.0052	
				1648	0.3000	1.15		1549	1.10	0.0055	
				1642	0.4500	1.18		1553	1.34	0.0061	
				1644	0.6001	1.20		1558	1.47	0.0070	
				1646	1.7996	1.26		1603	1.52	0.0080	
				1648	2.4006	1.34		1608	1.71	0.0090	
				1658	0.3603	1.40		1613	1.97	0.0102	
				1708	0.1800	1.43		1618	2.38	0.0116	
				1728	0.1500	1.48		1623	3.05	0.0133	
								1625	3.44	0.0141	
								1628	4.66	0.0156	
								1631	6.32	0.0177	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007629.

1968	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS WATERSHED W-2				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)										
				4-12				1633	7.78	0.0195
								1636	9.47	0.0228
								1638	10.24	0.0253
								1643	12.14	0.0324
								1648	15.07	0.0410
								1653	19.42	0.0520
								1658	24.71	0.0660
								1703	30.15	0.0834
								1708	32.58	0.1034
								1713	33.34	0.1243
								1718	32.20	0.1451
								1723	31.02	0.1652
								1728	29.37	0.1844
								1738	25.46	0.2193
								1748	22.11	0.2495
								1758	19.42	0.2759
								1808	16.56	0.2988
								1818	14.32	0.3184
								1828	12.72	0.3356
								1833	11.53	0.3510
								1848	10.05	0.3647
								1858	8.95	0.3768
								1918	7.32	0.3975
								1938	6.00	0.4144
								1958	4.99	0.4284
								2018	4.23	0.4401
								2038	3.67	0.4501
								2058	3.21	0.4588
								2128	2.61	0.4699
								2158	2.11	0.4789
								2228	1.74	0.4863
								2258	1.47	0.4923
								2328	1.24	0.4975
								2400	1.04	0.5022
				4-13				28	0.88	0.5056
								58	0.79	0.5088
								128	0.72	0.5117
								158	0.65	0.5143
								258	0.55	0.5189
								358	0.48	0.5224
								458	0.42	0.5262
								558	0.37	0.5292
								658	0.33	0.5319
								900	0.28	0.5366
								1200	0.20	0.5420
								1300	0.18	0.5434
								1400	0.16	0.5447
								1500	0.15	0.5459
								1600	0.12	0.5469

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007629.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED W-2

AREA: 42.30 acres

NOTES: Watershed conditions: 41% row grain sorghum; 24% fall planted small grain, largely oats; 15% pasture; 7% gravel and paved roads; 13% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Cropland farmed on contour, no terraces. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 427-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4, and W-5A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges W-2, W-4, and W-5A. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.007	1.266	0.011	0.151	0.003	0.005	0.009	0.001	0.0	0.0	0.0	0.015
2	0.002	0.036	0.015	0.126	0.002	0.862	0.012	0.001	0.0	0.0	0.0	0.001
3	0.002	0.023	0.012	0.038	0.004	0.653	0.007	0.002	0.0	0.0	0.0	0.001
4	0.001	0.018	0.013	0.007	0.003	0.038	0.005	0.002	0.0	0.0	0.0	0.0 T
5	0.165	0.014	0.020	0.006	0.003	0.021	0.005	0.002	0.0	0.0	0.0	0.0 T
6	0.025	0.011	0.029	0.007	0.002	0.014	0.007	0.001	0.0	0.0	0.0	0.0 T
7	0.001	0.007	0.016	0.008	0.002	0.008	0.007	0.001	0.0	0.0	0.0	0.001
8	0.0 T	0.007	0.018	0.008	0.005	0.007	0.014	0.001	0.0	0.0	0.0	0.0 T
9	0.299	0.008	0.023	0.009	0.006	0.007	0.537	0.001	0.0	0.0	0.0	0.0 T
10	0.139	0.012	0.655	0.007	1.351	0.007	0.009	0.002	0.0	0.0	0.0	0.0 T
11	0.065	0.012	2.107	0.006	0.023	0.004	0.008	0.002	0.0	0.0	0.0	0.0 T
12	0.021	0.012	0.052	0.454	0.016	0.004	0.009	0.004	0.0	0.0	0.0	0.0 T
13	0.012	0.011	0.013	0.031	0.013	0.004	0.013	0.002	0.0	0.0	0.0	0.0 T
14	0.011	0.075	0.010	0.012	0.009	0.004	0.012	0.001	0.0	0.0	0.0	0.0 T
15	0.008	0.023	0.009	0.011	0.007	0.005	0.013	0.001	0.0	0.0	0.0	0.0 T
16	0.007	0.016	0.009	0.011	0.007	0.006	0.013	0.0 T	0.0	0.0	0.0	0.0 T
17	0.005	0.017	0.008	0.011	1.038	0.005	0.012	0.0	0.0	0.0	0.0	0.0 T
18	0.270	0.020	0.009	0.010	0.022	0.005	0.012	0.0	0.0	0.0	0.0	0.0 T
19	0.043	0.081	0.009	0.018	0.007	0.005	0.032	0.0	0.0	0.0	0.0	0.0
20	0.092	0.024	0.011	0.014	0.007	0.007	0.015	0.0	0.0	0.0	0.0	0.0
21	1.623	0.021	0.003	0.028	0.005	0.004	0.018	0.0	0.0	0.0	0.0	0.0
22	0.230	0.018	0.003	0.009	0.004	0.005	0.016	0.0	0.0	0.0	0.0	0.0
23	0.054	0.017	0.005	0.005	0.004	0.006	0.012	0.0	0.0	0.0	0.0	0.0
24	0.030	0.017	0.005	0.004	0.004	1.609	0.009	0.0	0.0	0.0	0.0	0.0
25	0.020	0.014	0.004	0.003	0.044	0.476	0.007	0.0	0.0	0.0	0.0	0.0
26	0.015	0.012	0.004	0.004	0.018	0.365	0.004	0.0	0.0	0.0	0.0	0.0
27	0.015	0.012	0.004	0.005	0.010	0.006	0.002	0.0	0.0	0.0	0.0	0.0
28	0.031	0.178	0.004	0.005	0.005	0.007	0.002	0.0	0.0	0.0	0.0	0.0
29	0.021	0.012	0.004	0.003	0.004	0.009	0.002	0.0	0.0	0.0	0.0	0.0
30	0.038	0.005	0.003	0.004	0.004	0.009	0.001	0.0	0.0	0.0	0.109	0.0
31	0.027	0.005	0.004	0.004	0.004	0.001	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.1058	0.0687	0.0998	0.0337	0.0850	0.1389	0.0267	0.0007	0.0	0.0	0.0036	0.0007
INCHES	1.845	1.122	1.741	0.569	1.482	2.344	0.465	0.013	0.0	0.0	0.061	0.012
STA AV	0.350	0.409	0.461	0.762	0.865	0.513	0.076	0.029	0.096	0.115	0.310	0.327

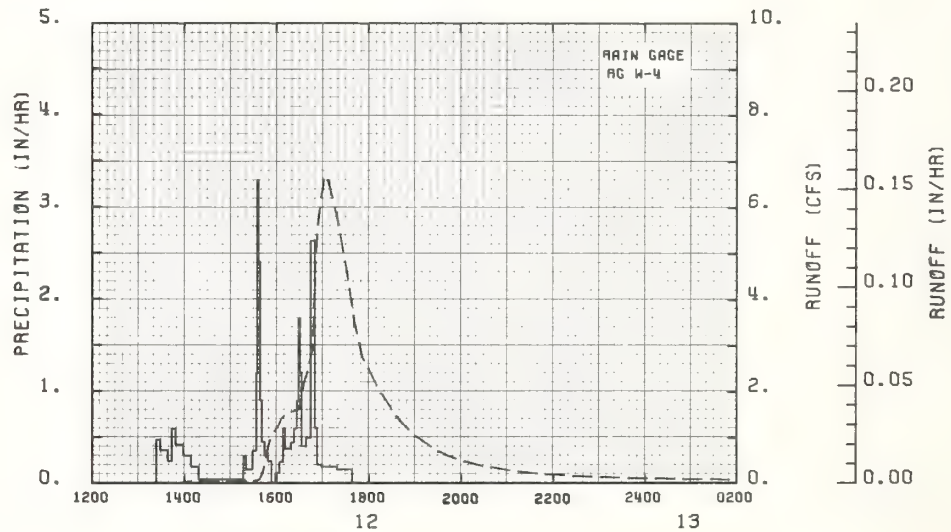
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562683. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED W-6		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968											
RG	W-4		RG	W-4							
4-12	0.0	0.002	4-12	1323	0.0	0.0	4-12	1356	0.03	0.0	
				1328	0.4800	0.04		1401	0.04	0.0001	
				1338	0.3600	0.10		1406	0.05	0.0002	
				1343	0.2400	0.12		1411	0.06	0.0003	
				1348	0.6000	0.17		1416	0.07	0.0004	
WATERSHED CONDITIONS:											
25% fall planted oats, 8 to				1358	0.4200	0.24		1421	0.07	0.0005	
10 inches high; 41% row				1408	0.3000	0.29		1431	0.05	0.0007	
grain sorghum, 1 to 2 inches				1418	0.1800	0.32		1441	0.05	0.0009	
high; 15% pasture, Bermuda-				1448	0.0400	0.34		1446	0.05	0.0010	
grass, good cover, moderately				1516	0.0429	0.36		1456	0.06	0.0012	
grazed; 7% gravel roads; 11%				1520	0.3000	0.38		1506	0.06	0.0014	
Johnsongrass and weeds, not				1528	0.1500	0.40		1516	0.06	0.0016	
tilled or grazed; 2% native				1533	0.3600	0.43		1521	0.06	0.0017	
grass waterways, dense				1534	1.1999	0.45		1531	0.07	0.0020	
cover. Cropland farmed on				1536	3.3001	0.56		1536	0.08	0.0022	
contour, not terraced.											
				1538	2.4000	0.64		1538	0.11	0.0023	
				1540	0.9000	0.67		1540	0.20	0.0024	
				1544	0.4500	0.70		1542	0.28	0.0026	
				1548	0.3000	0.72		1544	0.42	0.0029	
				1553	0.2400	0.74		1546	0.57	0.0033	
				1558	0.0	0.74		1548	0.80	0.0038	
				1603	0.1200	0.75		1551	0.95	0.0048	
				1608	0.2400	0.77		1556	1.11	0.0068	
				1610	0.6001	0.79		1601	1.25	0.0091	
				1618	0.3750	0.84		1606	1.43	0.0117	
				1622	0.4500	0.87		1611	1.52	0.0146	
				1626	0.6000	0.91		1616	1.57	0.0176	
				1628	0.8996	0.94		1621	1.57	0.0207	
				1630	1.7996	1.00		1626	1.62	0.0238	
				1632	1.2003	1.04		1628	1.63	0.0251	
				1638	0.4000	1.08		1631	1.79	0.0271	
				1644	0.5000	1.13		1636	2.27	0.0311	
				1649	2.6397	1.35		1641	2.52	0.0358	
				1652	0.6001	1.38		1646	2.93	0.0411	
				1658	0.2000	1.40		1648	3.68	0.0437	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-6								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 12 - 13, 1968 (CONTINUED)											
4-12			1718		0.1800	1.46	4-12	1650	4.76	0.0470	
			1738		0.1500	1.51		1652	5.39	0.0510	
								1656	6.03	0.0599	
								1658	6.28	0.0647	
								1700	6.47	0.0697	
								1702	6.68	0.0748	
								1706	6.62	0.0852	
								1711	6.28	0.0978	
								1716	5.92	0.1097	
								1721	5.55	0.1209	
								1731	4.57	0.1407	
								1741	3.48	0.1564	
								1751	2.74	0.1686	
								1801	2.41	0.1787	
								1811	2.06	0.1874	
								1821	1.82	0.1950	
								1831	1.55	0.2016	
								1841	1.34	0.2072	
								1851	1.17	0.2121	
								1901	1.01	0.2164	
								1921	0.78	0.2234	
								1941	0.60	0.2288	
								2001	0.48	0.2330	
								2031	0.36	0.2379	
								2101	0.28	0.2417	
								2131	0.22	0.2446	
								2201	0.18	0.2469	
								2231	0.15	0.2488	
								2301	0.13	0.2504	
								2400	0.10	0.2530	
							4-13	101	0.08	0.2551	
								201	0.07	0.2568	
								301	0.06	0.2583	
								401	0.05	0.2595	
								501	0.04	0.2605	
								600	0.04	0.2614	
								1200	0.02	0.2656	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.



EVENT OF APRIL 12 - 13, 1968
RIESEL (WACO), TEXAS WATERSHED W-6

RIESEL (WACO), TEXAS WATERSHED W-10

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 19.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)															RIESEL (WACO), TEXAS WATERSHED W-10														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	5.32	3.10	3.04	4.01	6.35	7.87	3.13	0.94	3.12	0.84	5.97	0.59	44.28															
	O	2.520	0.984	1.565	1.048	2.553	3.432	0.634	0.0	0.0	0.0	1.195	0.065	13.996															
STA AV	P	2.17	2.67	2.19	4.03	4.00	3.56	1.43	2.32	2.59	2.66	3.01	2.33	32.96															
	O	0.501	0.480	0.454	0.944	0.964	0.632	0.092	0.096	0.202	0.260	0.488	0.426	5.538															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge Date		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.													
1968		6-24	0.981	6-24	0.776	6-24	1.171	6-24	1.543	5-10	1.643	5- 9	1.662	6-24	2.031	5-10	2.518												
MAXIMUMS FOR PERIOD OF RECORD																													
		6-10	5.010	4-19	2.310	4-19	2.550	5-11	3.000	11-22	3.330	11-22	3.530	4-24	5.160	5-19	8.290												
		1941		1957		1957		1957		1940		1940		1966		1957													

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, terraced. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-10												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.25S	1.26	0.0	1.37	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.12	0.0	2.19	0.33	0.0	0.0	0.0	0.0	0.57	0.02E												
3	0.18	0.0	0.0	0.25	0.43	0.54	0.0	0.0	0.17	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.75	0.0	0.0	0.0	0.0												
5	0.84	0.0	0.24	0.0	0.0	0.0	0.17	0.0	0.0	0.06	0.01E	0.0	0.0												
6	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
8	1.19S	0.0	0.10E	0.0	0.0	0.58	0.0	0.57	0.0	0.0	0.0	0.81	0.0												
9	0.0 S	0.0	0.0	0.11	0.52	0.0	1.43	0.0	0.0	0.0	0.75	0.0	0.0												
10	0.0	0.0 E	0.90	0.0	2.10	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0												
11	0.01E	0.0	1.49	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
12	0.0 E	0.0	0.0	1.48	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.13												
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0												
14	0.0	0.59	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	1.00	0.0	0.0	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.73	0.0												
16	0.0	0.0	0.0	0.0	0.02E	0.10E	0.0	0.0	0.0	0.0	0.08E	0.0	0.0												
17	0.0	0.0 E	0.0	0.0	1.52	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0												
18	0.97	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E												
19	0.0	0.42	0.07E	0.31	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0												
20	0.25	0.0	0.14	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.07												
21	1.33	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.17												
22	0.0	0.10S	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.16												
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0 E	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.41	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.86	1.20	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.02E	0.0	0.0	1.14	0.0												
27	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	1.19	0.04E												
28	0.12	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0												
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	1.49	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL		5.32	3.10	3.04	4.01	6.35	7.87	3.13	0.94	3.12	0.84	5.97	0.59												
STA AV		2.17	2.67	2.19	4.03	4.00	3.56	1.43	2.32	2.59	2.66	3.01	2.33												

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-6. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.012	0.394	0.001	0.206	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.054
2	0.002	0.009	0.001	0.228	0.0	0.625	0.0	0.0	0.0	0.0	0.0	0.0
3	0.002	0.001	0.001	0.014	0.0 T	0.401	0.0	0.0	0.0	0.0	0.0	0.0
4	0.001	0.0 T	0.0 T	0.003	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0
5	0.318	0.0 T	0.001	0.0 T	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
6	0.050	0.0	0.007	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.001	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
8	0.001	0.0	0.0 T	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
9	0.512	0.0	0.001	0.0	0.001	0.0	0.525	0.0	0.0	0.0	0.0	0.0
10	0.085	0.0	0.195	0.0	1.377	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.008	0.0	1.057	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.001	0.0	0.029	0.342	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0 T	0.048	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0 T	0.102	0.0 T	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.010	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.001	0.0 T	0.0	0.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.206	0.001	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.023	0.066	0.0 T	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.016	0.006	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.735	0.002	0.0 T	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.106	0.001	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.005	0.002	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0 T	0.031	0.0	0.0 T	0.0	1.308	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.001	0.0	0.0	0.004	0.273	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0 T	0.0	0.0	0.004	0.200	0.0	0.0	0.0	0.0	0.011	0.0
27	0.0	0.0 T	0.0	0.0	0.002	0.0 T	0.0	0.0	0.0	0.0	0.237	0.0
28	0.001	0.211	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.010	0.0
29	0.0 T	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.731	0.0
31	0.001		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0674	0.0281	0.0418	0.0289	0.0682	0.0947	0.0169	0.0	0.0	0.0	0.0330	0.0017
INCHFS	2.520	0.984	1.565	1.048	2.553	3.432	0.634	0.0	0.0	0.0	1.195	0.065
STA AV	0.501	0.480	0.454	0.944	0.964	0.632	0.092	0.096	0.202	0.260	0.488	0.426

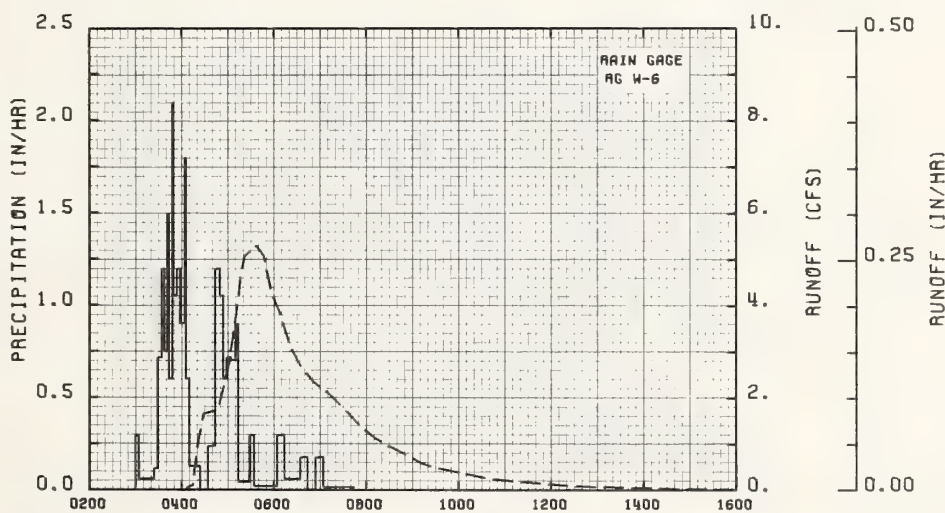
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.208198. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-10												
ANTECEDENT CONDITIONS												
Date	Rainfall	Runoff	Date	Time	Rainfall	Acc.	Date	Time	Runoff	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(cfs)	(inches)	
EVENT OF JULY 9 - 10, 1968												
7- 9	EG W-6 0.0	0.0	7- 9	B3 W-6	0.0	0.0	7- 9	331	0.0	0.0		
					304	0.3000	0.02	341	0.0	0.0		
					324	0.0600	0.04	351	0.0	0.0		
					329	0.1200	0.05	401	0.0	0.0		
					334	0.7200	0.11	403	0.01	0.0		
WATERSHED CONDITIONS: 100% Coastal Bermudagrass pasture, 4 to 6 inches high, good cover.												
					338	1.2000	0.19	405	0.01	0.0		
					342	0.7500	0.24	406	0.02	0.0		
					344	1.5000	0.29	407	0.04	0.0		
					348	0.6000	0.33	408	0.07	0.0001		
					350	2.1000	0.40	409	0.09	0.0002		
					354	1.0500	0.47	414	0.11	0.0006		
					358	1.2000	0.55	415	0.13	0.0007		
					404	0.9000	0.64	416	0.23	0.0008		
					406	1.8000	0.70	417	0.45	0.0011		
					410	0.6000	0.74	418	0.60	0.0015		
					424	0.1286	0.77	419	0.72	0.0022		
					434	0.0	0.77	421	0.95	0.0035		
					444	0.2400	0.81	423	1.17	0.0054		
					450	1.2000	0.93	425	1.34	0.0074		
					454	1.0500	1.00	427	1.50	0.0099		
					459	0.6000	1.05	429	1.67	0.0124		
					504	0.7200	1.11	448	1.74	0.0395		
					510	0.7000	1.18	451	1.99	0.0443		
					514	0.9000	1.24	457	2.40	0.0555		
					528	0.0429	1.25	502	2.76	0.0661		
					534	0.3000	1.28	507	3.35	0.0787		
					604	0.0200	1.29	512	3.94	0.0945		
					614	0.3000	1.34	517	4.62	0.1122		
					634	0.0600	1.36	522	5.09	0.1323		
					644	0.1800	1.39	537	5.29	0.1976		
					654	0.0	1.39	547	5.07	0.2414		
					704	0.1800	1.42	557	4.26	0.2808		
					744	0.0150	1.43	607	3.86	0.3143		
								622	3.08	0.3580		
								637	2.61	0.3938		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-10					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
RATE								
Acc.								
Rate (cfs)								
Acc. (inches)								
EVENT OF JULY 9 - 10, 1968 (CONTINUED)								
7- 9								
							652	2.32 0.4249
							712	2.07 0.4621
							732	1.73 0.4938
							752	1.38 0.5197
							812	1.11 0.5407
							832	0.92 0.5577
							852	0.75 0.5717
							912	0.57 0.5829
							930	0.48 0.5909
							1000	0.38 0.6017
							1030	0.27 0.6098
							1100	0.20 0.6157
							1130	0.16 0.6202
							1200	0.12 0.6237
							1230	0.08 0.6262
							1300	0.06 0.6279
							1400	0.04 0.6303
							1500	0.02 0.6317
							1600	0.01 0.6326
							1800	0.0 0.6335
							2000	0.0 0.6338
							2400	0.0 0.6340
							7-10	
							600	0.0 0.6341
							1200	0.0 0.6341

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.



EVENT OF JULY 9 - 10, 1968
RIESEL (WACO), TEXAS WATERSHED W-10

RIESEL (WACO), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Waco; Brazos Basin.

AREA: 309.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										RIESEL (WACO), TEXAS WATERSHED Y							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	5.06	3.35	3.10	4.12	6.82	8.88	5.50	0.48	3.57	0.79	6.05	0.61	48.54			
	O	2.805	1.460	1.916	1.333	2.363	4.256	1.630	0.001	0.000	0.0	0.356	0.120	16.242			
STA AV	P	2.26	2.63	2.22	3.96	4.02	3.70	1.53	2.06	2.50	2.50	2.87	2.32	32.58			
	O	0.528	0.536	0.466	0.791	0.781	0.601	0.128	0.048	0.106	0.096	0.331	0.113	4.723			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		6- 2	1.476	6- 2	0.991	6- 2	1.271	6- 2	1.572	6- 2	1.635	6- 2	1.999	6- 2	2.384	6- 1	2.448
MAXIMUMS FOR PERIOD OF RECORD																	
		4-19	2.540	4-19	2.150	4-19	2.740	4-19	3.480	4-19	3.660	3-29	3.980	11-22	4.770	4-19	9.360
		1957		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 48% pasture; 16% cotton; 19% fall planted small grain, largely oats; 16% row grain sorghum; 1% gravel and paved roads. Cropland terraced, contour cultivation. No change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69, 69B, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.25S	1.36	0.0	1.57	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.17	0.0	3.39	1.64	0.0	0.0	0.0	0.73	0.03E		
3	0.17	0.0	0.0	0.31	0.71	0.56	0.0	0.0	0.33	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.87	0.0	0.0	0.0		
5	0.69	0.0	0.25	0.0	0.0	0.03E	0.0	0.0	0.07	0.01E	0.0	0.0		
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.07S	0.0	0.08E	0.0	0.72	0.0	0.72	0.0	0.0	0.0	0.86	0.0		
9	0.0 S	0.0	0.0	0.13	0.54	0.0	0.87	0.0	0.0	0.76	0.0	0.0		
10	0.0	0.00E	1.24	0.0	2.23	0.0	0.04E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.24	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.00E	0.0	0.0	1.57	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.19		
13	0.0	0.03E	0.0	0.0	0.02E	0.0	0.22	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.07	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.71	0.0		
16	0.0	0.0	0.0	0.0	0.01E	0.24	0.0	0.0	0.0	0.01E	0.0	0.0		
17	0.0	0.01E	0.0	0.0	1.37	0.0	0.0	0.0	0.61	0.0	0.0	0.0		
18	0.96	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E		
19	0.0	0.41	0.07E	0.35	0.0	0.0	2.00	0.0	0.0	0.0	0.0	0.0		
20	0.26	0.0	0.15	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.09		
21	1.30	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.14		
22	0.0	0.11S	0.0	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0	0.13		
23	0.01E	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0 E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.24	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.84	1.05	0.0 E	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.14E	0.0	0.0	1.05	0.0		
27	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	1.20	0.03E		
28	0.11E	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.24		0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	1.46	0.0		
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0		
TOTAL	5.06	3.35	3.10	4.32	6.82	8.88	5.50	0.48	3.57	0.79	6.05	0.61		
STA AV	2.26	2.63	2.22	3.96	4.02	3.70	1.53	2.06	2.50	2.87	2.32			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69, 69B, 70, 75A, 84A, 89, and W-2A. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 26 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.202	9.830	0.121	2.591	0.016	0.024	0.047	0.005	0.0	0.0	0.0	0.880
2	0.091	0.708	0.121	3.832	0.012	22.198	5.078	0.003	0.0	0.0	0.0	0.126
3	0.140	0.331	0.104	1.211	0.091	8.818	0.533	0.002	0.0 T	0.0	0.0	0.061
4	0.082	0.218	0.082	0.291	0.072	0.687	0.098	0.001	0.001	0.0	0.0	0.026
5	2.349	0.177	0.147	0.096	0.015	0.269	0.073	0.001	0.0 T	0.0	0.0	0.020
6	0.789	0.128	0.427	0.081	0.008	0.175	0.061	0.001	0.0 T	0.0	0.0	0.019
7	0.095	0.098	0.174	0.076	0.008	0.108	0.059	0.001	0.0	0.0	0.0	0.014
8	0.068	0.093	0.128	0.079	0.282	0.089	0.389	0.001	0.0	0.0	0.0	0.013
9	4.056	0.092	0.198	0.119	0.122	0.074	4.826	0.0 T	0.0	0.0	0.0	0.016
10	2.669	0.098	3.465	0.088	17.701	0.061	0.181	0.0 T	0.0	0.0	0.0	0.016
11	1.178	0.097	16.834	0.059	0.416	0.054	0.118	0.0 T	0.0	0.0	0.0	0.017
12	0.475	0.087	0.976	6.484	0.253	0.049	0.089	0.0 T	0.0	0.0	0.0	0.035
13	0.179	0.083	0.340	0.614	0.159	0.040	0.139	0.0	0.0	0.0	0.0	0.020
14	0.140	1.037	0.209	0.145	0.105	0.034	0.065	0.0	0.0	0.0	0.0	0.013
15	0.127	0.333	0.163	0.082	0.083	0.029	0.051	0.0	0.0	0.0	0.0	0.013
16	0.108	0.183	0.144	0.093	0.075	0.026	0.044	0.0	0.0	0.0	0.0	0.015
17	0.106	0.136	0.123	0.097	8.549	0.046	0.038	0.0	0.0	0.0	0.0	0.017
18	4.070	0.150	0.134	0.096	0.428	0.029	0.037	0.0	0.0	0.0	0.0	0.016
19	0.926	1.043	0.159	0.315	0.104	0.022	8.667	0.0	0.0	0.0	0.0	0.010
20	1.388	0.274	0.220	0.183	0.073	0.041	0.233	0.0	0.0	0.0	0.0	0.013
21	11.474	0.226	0.100	0.285	0.066	0.041	0.088	0.0	0.0	0.0	0.0	0.034
22	2.427	0.186	0.068	0.147	0.064	0.037	0.063	0.0	0.0	0.0	0.0	0.045
23	0.590	0.171	0.061	0.053	0.050	0.042	0.045	0.0	0.0	0.0	0.0	0.013
24	0.348	0.149	0.061	0.034	0.042	15.568	0.036	0.0	0.0	0.0	0.0	0.013
25	0.276	0.110	0.048	0.029	0.399	2.580	0.030	0.0	0.0	0.0	0.0	0.015
26	0.212	0.078	0.044	0.031	0.855	3.758	0.028	0.0	0.0	0.0	0.001	0.018
27	0.191	0.073	0.044	0.029	0.454	0.143	0.018	0.0	0.0	0.0	0.346	0.017
28	0.325	2.544	0.051	0.027	0.074	0.090	0.013	0.0	0.0	0.0	0.098	0.010
29	0.309	0.224	0.044	0.024	0.043	0.067	0.009	0.0	0.0	0.0	0.014	0.011
30	0.584		0.046	0.017	0.035	0.052	0.007	0.0	0.0	0.0	4.166	0.012
31	0.448		0.041		0.030		0.006	0.0	0.0	0.0		0.006
MEAN	1.1749	0.6538	0.8024	0.5768	0.9898	1.8417	0.6828	0.0005	0.0001	0.0	0.1541	0.0501
INCHES	2.805	1.460	1.916	1.333	2.363	4.256	1.630	0.001	0.000	0.0	0.356	0.120
STA AV	0.528	0.536	0.466	0.791	0.781	0.601	0.128	0.048	0.106	0.096	0.331	0.113

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.077028. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 26 yr period.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG 70		7-19	RG 70			7-19					
	0.0	0.002		1313	0.0	0.0		1302	0.04	0.0		
				1316	4.2000	0.21		1307	0.04	0.0		
				1320	3.3000	0.43		1309	0.05	0.0		
				1324	3.9000	0.69		1311	0.07	0.0		
				1328	3.9000	0.95		1313	0.09	0.0		
WATERSHED CONDITIONS:												
48% pasture, Bermuda grass				1330	6.8999	1.18		1315	0.12	0.0		
and native grass, good				1332	4.2000	1.32		1316	0.15	0.0		
cover, moderately grazed;				1334	2.4000	1.40		1317	0.20	0.0		
16% cotton, 12 to 14 inches				1338	3.4500	1.63		1318	0.20	0.0		
high; 19% tilled, bare; 16%				1344	2.6000	1.89		1319	0.25	0.0		
row grain sorghum, maturing;												
1% gravel roads. Cropland				1348	1.6500	2.00		1320	0.31	0.0		
terraced, cultivated on				1352	0.7500	2.05		1321	0.37	0.0		
contour.								1322	0.41	0.0		
								1323	0.45	0.0		
								1324	0.56	0.0		
								1325	0.72	0.0		
								1326	0.98	0.0		
								1327	1.51	0.0001		
								1328	2.07	0.0002		
								1329	2.47	0.0003		
								1330	2.90	0.0005		
								1331	3.44	0.0007		
								1332	4.32	0.0009		
								1333	5.45	0.0011		
								1334	6.82	0.0015		
								1335	7.65	0.0019		
								1336	8.85	0.0023		
								1337	9.82	0.0028		
								1338	11.38	0.0035		
								1339	12.57	0.0041		
								1340	13.82	0.0048		
								1341	15.65	0.0055		
								1342	16.76	0.0065		
								1343	18.68	0.0074		
								1344	23.09	0.0084		

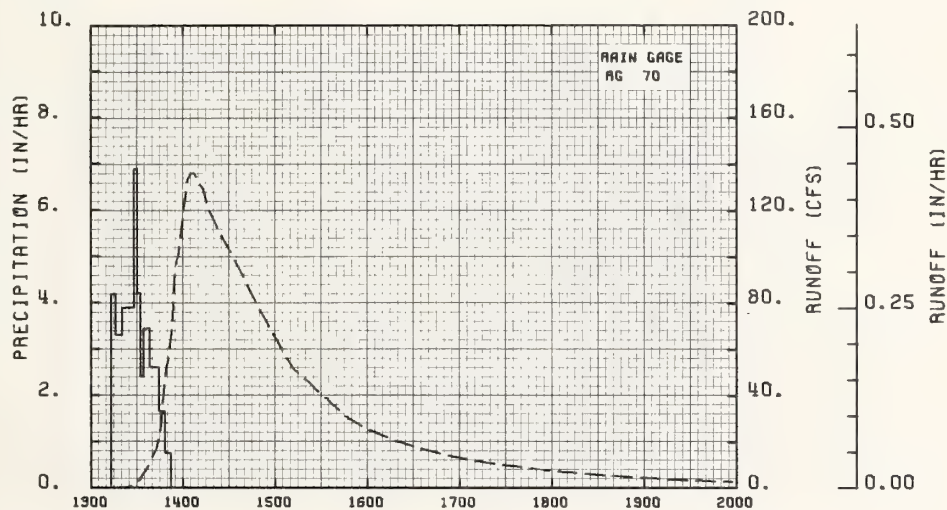
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

1968 SELECTED RUNOFF EVENT			FIESEL (WACO), TEXAS WATERSHED Y							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
							7-19	1345	25.03	0.0099
								1346	32.21	0.0113
								1347	40.95	0.0131
								1348	47.27	0.0153
								1349	52.43	0.0184
								1350	55.53	0.0211
								1351	60.54	0.0240
								1352	65.40	0.0272
								1353	73.60	0.0316
								1354	84.82	0.0357
								1355	95.81	0.0404
								1357	102.10	0.0516
								1359	113.24	0.0624
								1401	123.53	0.0758
								1403	133.55	0.0887
								1405	136.24	0.1039
								1407	136.24	0.1176
								1409	133.38	0.1328
								1411	130.73	0.1460
								1413	128.93	0.1606
								1416	121.09	0.1810
								1419	116.84	0.2004
								1422	112.53	0.2177
								1427	105.94	0.2478
								1432	100.13	0.2749
								1437	93.94	0.3004
								1442	86.70	0.3253
								1447	80.30	0.3473
								1452	74.12	0.3676
								1457	68.06	0.3872
								1502	62.25	0.4044
								1507	56.17	0.4200
								1512	50.93	0.4348
								1517	48.03	0.4478
								1522	45.31	0.4601
								1527	41.80	0.4721
								1532	39.21	0.4828
								1537	36.04	0.4927
								1542	33.14	0.5022
								1547	30.07	0.5105
								1552	28.29	0.5182
								1557	26.29	0.5257
								1607	23.15	0.5387
								1617	20.55	0.5505
								1627	18.35	0.5610
								1637	16.50	0.5702
								1647	14.72	0.5786
								1657	13.30	0.5862
								1717	10.86	0.5991
								1737	9.15	0.6098
								1757	7.48	0.6188
								1817	6.37	0.6262
								1837	5.24	0.6324
								1857	4.41	0.6376
								1927	3.28	0.6438
								1957	2.58	0.6485
								2027	2.07	0.6522
								2057	1.73	0.6553
								2127	1.38	0.6578
								2157	1.28	0.6599
								2227	1.10	0.6618
								2257	0.93	0.6634
								2327	0.78	0.6648
								2400	0.70	0.6661
							7-20	27	0.64	0.6671
								57	0.59	0.6681
								157	0.50	0.6699
								257	0.43	0.6714
								357	0.38	0.6727
								457	0.33	0.6738
								557	0.29	0.6748
								657	0.27	0.6757
								757	0.25	0.6765
								857	0.23	0.6773
								1200	0.21	0.6795

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968 (CONTINUED)											
							7-20	1400	0.17	0.6807	
								1600	0.12	0.6816	
								1800	0.10	0.6823	
								2000	0.09	0.6829	
								2400	0.09	0.6840	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y

RIESEL (WACO), TEXAS WATERSHED Y-2

LOCATION: Falls Co., Texas; 18 mi. N Waco; Brazos River Basin.

AREA: 1,000 sq. mi.

MONTHLY PRECIPITATION AND RUN-OFF (inches)														RIESEL (WACO), TEXAS		WATERSHED Y-2	
		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual			
1968	P	5.06	3.38	3.23	4.14	6.83	8.81	5.68	0.42	3.65	0.80	6.05	0.59	48.83			
	O	2.472	1.278	1.869	1.240	2.333	4.480	1.898	0.0	0.0	0.0	0.313	0.071	15.953			
STA. AV.	P	2.26	2.66	2.50	4.01	4.53	7.59	1.60	2.08	2.62	2.50	3.04	2.48	31.88			
	O	0.466	0.594	0.652	0.940	1.170	0.604	0.171	0.048	0.097	0.116	0.349	0.437	5.607			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Vol.	1 Hour	Date	Vol.	2 Hours	Date	Vol.	6 Hours	Date	Vol.	12 Hours	1 Day	2 Days	8 Days	
1968		6- 2	1.436	6- 2	1.098	6- 2	1.414	6- 2	1.747	6- 2	1.794	6- 2	2.148	6- 2	2.550	5-27 2.605	
MAXIMUMS FOR PERIOD OF RECORD																	
		5- 1	4.070	5- 1	3.110	5- 1	5.470	5- 1	7.080	5- 1	7.280	5- 1	7.460	4-30	9.640	4-29 10.60	
		1944		1944		1944		1944		1944		1944		1944		1944	

NOTES: Watershed conditions: 20% cotton; 27% fall planted small grain, largely oats; 19% row grain sorghum; 33% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Ser. 1194, p. 42.11-6 (Revised). Precipitation and runoff records began Jan. 1, 1939. Precipitation data from Thiessen weighted method using rain gauges 69, 69B, 70, 75A, and 84A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y-2	
Day	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.			
1	0.25S	1.40	0.0	1.59	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.18	0.0	1.41	1.63	0.0	0.0	0.0	0.74	0.02E			
3	0.17	0.0	0.0	0.32	0.73	0.56	0.0	0.0	0.39	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.88	0.0	0.0	0.0			
5	0.89	0.0	0.26	0.0	0.0	0.02E	0.0	0.0	0.08	0.01E	0.0	0.0			
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	1.09S	0.0	0.08E	0.0	0.18	0.0	0.73	0.0	0.0	0.0	0.87	0.0			
9	0.0	0.0	0.0	0.13	0.55	0.0	0.91	0.0	0.0	0.78	0.0	0.0			
10	0.0	0.00E	1.1	0.0	2.21	0.0	0.04E	0.0	0.0	0.0	0.0	0.0			
11	0.01E	0.0	1.27	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.00E	0.0	0.0	1.56	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.17			
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.28	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0E	0.0	0.0	1.08	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.73	0.0			
16	0.0	0.0	0.0	0.0	0.01E	0.26	0.0	0.0	0.0	0.01E	0.0	0.0			
17	0.0	0.02E	0.0	0.0	1.39	0.0	0.0	0.0	0.63	0.0	0.0	0.0			
18	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E			
19	0.0	0.0	0.07E	0.35	0.0	0.0	2.09	0.0	0.0	0.0	0.0	0.0			
20	0.26	0.0	0.15	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.09			
21	1.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13			
22	0.0	0.12S	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.13			
23	0.01E	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0E	0.0			
24	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.23	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.86	1.00	0.0E	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	1.0	0.0	0.04	0.0	0.17E	0.0	0.0	1.05	0.0			
27	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	1.18	0.03E			
28	0.10E	0.7E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0			
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	5.06	3.38	3.23	4.34	6.83	8.81	5.68	0.42	3.65	0.80	6.05	0.59			
STA AV	2.26	2.66	2.50	4.01	4.53	7.59	1.60	2.08	2.62	2.50	3.04	2.48			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69, 69B, 70, 75A, and 84A. Records began Jan. 1, 1939. STA AV based on 29 yr period.

1968	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHED Y-2		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.033	4.683	0.015	1.222	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.337
2	0.007	0.210	0.023	1.581	0.0	10.630	2.611	0.0	0.0	0.0	0.0	0.043
3	0.018	0.081	0.014	0.484	0.013	3.506	0.196	0.0	0.0	0.0	0.0	0.012
4	0.007	0.049	0.005	0.062	0.009	0.188	0.021	0.0	0.0	0.0	0.0	0.0 T
5	0.811	0.035	0.029	0.005	0.0	0.058	0.014	0.0	0.0	0.0	0.0	0.0
6	0.211	0.020	0.102	0.005	0.0	0.030	0.010	0.0	0.0	0.0	0.0	0.0
7	0.007	0.009	0.024	0.004	0.0	0.016	0.008	0.0	0.0	0.0	0.0	0.0
8	0.0 T	0.009	0.016	0.008	0.051	0.014	0.142	0.0	0.0	0.0	0.0	0.0
9	1.543	0.009	0.033	0.022	0.018	0.010	2.316	0.0	0.0	0.0	0.0	0.0
10	0.984	0.014	2.101	0.012	7.904	0.007	0.047	0.0	0.0	0.0	0.0	0.0
11	0.333	0.013	7.458	0.004	0.119	0.005	0.026	0.0	0.0	0.0	0.0	0.0
12	0.098	0.006	0.266	2.943	0.067	0.003	0.012	0.0	0.0	0.0	0.0	0.0
13	0.022	0.006	0.061	0.174	0.031	0.002	0.034	0.0	0.0	0.0	0.0	0.0
14	0.015	0.309	0.030	0.031	0.014	0.0 T	0.006	0.0	0.0	0.0	0.0	0.0
15	0.014	0.081	0.026	0.012	0.008	0.0	0.003	0.0	0.0	0.0	0.0	0.0
16	0.008	0.033	0.024	0.015	0.006	0.002	0.002	0.0	0.0	0.0	0.0	0.0
17	0.008	0.026	0.018	0.015	3.582	0.003	0.001	0.0	0.0	0.0	0.0	0.0
18	1.639	0.032	0.021	0.015	0.120	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
19	0.272	0.312	0.028	0.107	0.017	0.0	4.983	0.0	0.0	0.0	0.0	0.0
20	0.449	0.060	0.038	0.044	0.007	0.004	0.062	0.0	0.0	0.0	0.0	0.0
21	5.536	0.053	0.008	0.075	0.005	0.001	0.014	0.0	0.0	0.0	0.0	0.0
22	0.900	0.035	0.003	0.030	0.005	0.003	0.006	0.0	0.0	0.0	0.0	0.0
23	0.151	0.041	0.004	0.005	0.003	0.004	0.002	0.0	0.0	0.0	0.0	0.0
24	0.068	0.030	0.003	0.0 T	0.003	8.000	0.001	0.0	0.0	0.0	0.0	0.0
25	0.046	0.018	0.002	0.0	0.327	0.953	0.001	0.0	0.0	0.0	0.0	0.0
26	0.033	0.010	0.001	0.0	0.351	1.358	0.001	0.0	0.0	0.0	0.0	0.0
27	0.039	0.005	0.001	0.0	0.263	0.022	0.0 T	0.0	0.0	0.0	0.067	0.0
28	0.090	0.860	0.002	0.0	0.013	0.010	0.0	0.0	0.0	0.0	0.024	0.0
29	0.066	0.041	0.001	0.0	0.002	0.008	0.0	0.0	0.0	0.0	0.0 T	0.0
30	0.178		0.003	0.0	0.001	0.005	0.0	0.0	0.0	0.0	1.643	0.0
31	0.126		0.001		0.0 T		0.0	0.0	0.0	0.0		0.0
MEAN	0.4423	0.2445	0.3343	0.2292	0.4174	0.8281	0.3395	0.0	0.0	0.0	0.0578	0.0127
INCHES	2.472	1.278	1.869	1.240	2.333	4.480	1.898	0.0	0.0	0.0	0.313	0.071
STA AV	0.469	0.594	0.652	0.940	1.170	0.604	0.131	0.048	0.097	0.116	0.349	0.437

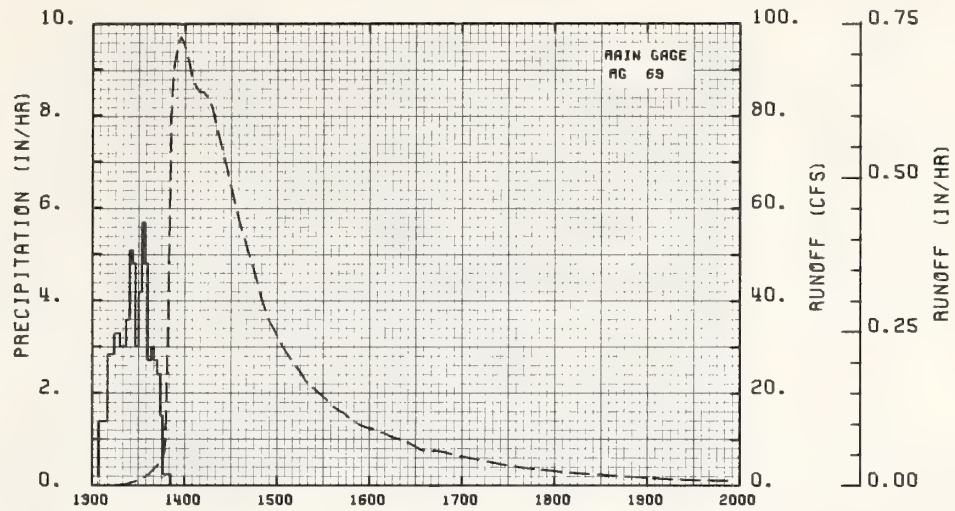
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.180314. Records began Jan. 1, 1939. STA AV based on 29 yr period.

1968	SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS				WATERSHED Y-2		
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Painfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968											
RG 69			RG 69								
7-19	0.0	0.0	7-19	1304	0.0	0.0	7-19	1305	0.0	0.0	
				1310	1.4000	0.14		1307	0.01	0.0	
				1314	2.8500	0.33		1309	0.03	0.0	
				1318	3.3000	0.55		1311	0.07	0.0	
				1322	3.0000	0.75		1313	0.11	0.0	
WATERSHED CONDITIONS: 33% pasture, Bermudagrass and native grass, good cover, moderately grazed; 27% til- led, bare; 20% cotton, 12 to 14 inches high; 19% sor- ghum, maturing; 1% gravel roads. Cropland terraced, cultivated on contour.				1324	3.6000	0.87		1315	0.16	0.0	
				1326	5.1001	1.04		1317	0.21	0.0	
				1328	4.7999	1.20		1319	0.26	0.0001	
				1330	3.0000	1.30		1321	0.33	0.0002	
				1332	4.2000	1.44		1323	0.49	0.0003	
				1334	5.6999	1.63		1325	0.75	0.0004	
				1336	4.8001	1.79		1327	0.91	0.0006	
				1338	2.7000	1.88		1329	1.13	0.0008	
				1340	3.0000	1.98		1331	1.35	0.0011	
				1342	2.7000	2.07		1333	1.73	0.0015	
				1344	2.4000	2.15		1335	2.17	0.0020	
				1346	1.5000	2.20		1337	2.63	0.0026	
				1351	0.2400	2.22		1339	3.37	0.0034	
					1341	4.15	0.0043				
					1343	4.87	0.0055				
					1344	5.40	0.0061				
					1345	6.11	0.0069				
					1346	6.44	0.0076				
					1347	7.62	0.0084				
					1348	14.90	0.0097				
					1349	33.39	0.0132				
					1350	56.40	0.0185				
					1351	78.72	0.0264				
					1352	86.80	0.0361				
					1353	91.63	0.0492				
					1355	95.17	0.0711				
					1357	97.13	0.0965				
					1359	95.63	0.1191				
					1401	93.45	0.1441				
					1403	90.95	0.1657				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y-2		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)								
				7-19			1405	87.36
							1407	86.36
							1409	85.03
							1412	84.92
							1415	83.60
							1418	81.20
							1421	76.91
							1424	72.70
							1427	68.79
							1430	64.26
							1434	58.69
							1439	52.66
							1444	47.23
							1449	41.09
							1454	35.92
							1459	32.77
							1504	29.72
							1509	27.08
							1514	24.88
							1519	22.34
							1524	20.82
							1529	19.34
							1534	17.77
							1539	16.31
							1544	15.31
							1549	14.04
							1554	12.87
							1559	12.28
							1604	12.01
							1614	10.45
							1624	9.36
							1634	7.49
							1644	7.36
							1659	6.23
							1709	5.61
							1718	5.05
							1728	4.28
							1738	3.80
							1748	3.42
							1803	2.87
							1823	2.38
							1843	1.94
							1903	1.52
							1923	1.25
							1943	1.03
							2003	0.87
							2033	0.71
							2103	0.56
							2133	0.47
							2203	0.39
							2233	0.33
							2303	0.28
							2400	0.22
				7-20			103	0.18
							203	0.14
							403	0.10
							600	0.08
							900	0.06
							1200	0.06
							1400	0.04
							1600	0.02
							1800	0.02
							2000	0.01
							2200	0.01
							2400	0.02

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y-2

PIESEL (WACO), TEXAS WATERSHED Y-4

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 79.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							PIESEL (WACO), TEXAS WATERSHED Y-4										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	5.12	3.43	3.28	4.34	6.82	8.75	5.81	0.42	3.67	0.82	6.05	0.59	49.10			
	O	2.960	1.326	1.971	1.202	2.302	4.193	1.933	0.0	0.0	0.0	0.284	0.098	16.268			
STA AV	P	2.21	2.63	2.27	3.94	4.25	3.69	1.53	2.09	2.68	2.55	3.03	2.31	33.17			
	O	0.437	0.482	0.468	0.776	0.952	0.637	0.149	0.067	0.116	0.125	0.348	0.302	4.859			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours Vol.	Date	12 Hours Vol.	Date	1 Day Vol.	Date	2 Days Vol.	Date	8 Days Vol.
1968		6- 2	1.382	6- 2	1.015	6- 2	1.344	6- 2	1.657	6- 2	1.711	6- 2	2.046	6- 2	2.360	5-27	2.393
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	3.120	4-19	2.160	4-19	2.850	3-29	3.340	3-29	3.530	3-29	3.960	4-23	5.120	4-19	9.460
		1941		1957		1957		1965		1965		1965		1957		1957	

NOTES: Watershed conditions: 8% cotton; 29% fall planted small grain, largely oats; 31% row grain sorghum; 31% pasture; 1% gravel and paved roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1, 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69, 69B, 75A, and 84A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)							PIESEL (WACO), TEXAS WATERSHED Y-4						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.25S	1.43	0.0	1.60	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.19	0.0	3.37	1.61	0.0	0.0	0.0	0.74	0.02E	
3	0.17	0.0	0.0	0.32	0.73	0.54	0.0	0.0	0.40	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.8^	0.0	0.0	0.0	0.0
5	0.73	0.0	0.26	0.0	0.0	0.01E	0.0	0.0	0.07	0.01E	0.0	0.0	0.0
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.10S	0.0	0.09E	0.0	0.66	0.0	0.73	0.0	0.0	0.0	0.38	0.0	0.0
9	0.0 S	0.0	0.0	0.13	0.56	0.0	0.95	0.0	0.0	0.80	0.0	0.0	0.0
10	0.0	0.90E	1.45	0.0	2.20	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0
11	0.01E	0.0	1.28	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.00E	0.0	0.0	1.56	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.17	0.0
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.09	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.72	0.0	0.0
16	0.0	0.0	0.0	0.0	0.01E	0.28	0.0	0.0	0.0	0.01E	0.0	0.0	0.0
17	0.0	0.02E	0.0	0.0	1.40	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0
18	0.94	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0
19	0.0	0.41	0.08E	0.34	0.0	0.0	2.16	0.0	0.0	0.0	0.0	0.0	0.0
20	0.26	0.0	0.15	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.09	0.0
21	1.29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13	0.0
22	0.0	0.12S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.13	0.0
23	0.01E	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	2.59	0.0	0.0	0.22	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.85	0.96	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.19E	0.0	0.0	1.07	0.0	0.0
27	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	1.16	0.04E	0.0
28	0.10E	0.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.46	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	5.12	3.43	3.28	4.34	6.82	8.75	5.81	0.42	3.67	0.82	6.05	0.59	
STA AV	2.21	2.63	2.27	3.94	4.25	3.69	1.53	2.09	2.68	2.55	3.03	2.31	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average using rain gauges 69, 69B, 75A, and 84A. Records began Jan. 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 26 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.022	2.985	0.008	0.538	0.0 T	0.002	0.011	0.0	0.0	0.0	0.0	0.292
2	0.006	0.139	0.013	0.852	0.0	5.835	1.607	0.0	0.0	0.0	0.0	0.030
3	0.013	0.061	0.008	0.366	0.016	2.105	0.129	0.0	0.0	0.0	0.0	0.007
4	0.005	0.034	0.006	0.052	0.007	0.130	0.022	0.0	0.0	0.0	0.0	0.0 T
5	0.557	0.025	0.018	0.010	0.0 T	0.038	0.021	0.0	0.0	0.0	0.0	0.0
6	0.167	0.016	0.050	0.011	0.0	0.021	0.019	0.0	0.0	0.0	0.0	0.0
7	0.004	0.009	0.016	0.009	0.0	0.014	0.013	0.0	0.0	0.0	0.0	0.0
8	0.002	0.010	0.014	0.011	0.038	0.013	0.079	0.0	0.0	0.0	0.0	0.0
9	2.391	0.011	0.028	0.022	0.018	0.009	1.312	0.0	0.0	0.0	0.0	0.0
10	0.852	0.014	1.430	0.013	4.645	0.007	0.037	0.0	0.0	0.0	0.0	0.0
11	0.312	0.013	4.523	0.008	0.086	0.005	0.020	0.0	0.0	0.0	0.0	0.0
12	0.080	0.008	0.183	1.693	0.051	0.004	0.011	0.0	0.0	0.0	0.0	0.0
13	0.014	0.008	0.050	0.135	0.028	0.003	0.024	0.0	0.0	0.0	0.0	0.0
14	0.009	0.185	0.032	0.037	0.014	0.002	0.005	0.0	0.0	0.0	0.0	0.0
15	0.009	0.044	0.029	0.020	0.009	0.003	0.003	0.0	0.0	0.0	0.0	0.0
16	0.006	0.020	0.027	0.018	0.009	0.008	0.003	0.0	0.0	0.0	0.0	0.0
17	0.006	0.017	0.026	0.015	2.123	0.007	0.002	0.0	0.0	0.0	0.0	0.0
18	0.861	0.018	0.023	0.015	0.084	0.005	0.002	0.0	0.0	0.0	0.0	0.0
19	0.180	0.188	0.028	0.078	0.020	0.007	3.079	0.0	0.0	0.0	0.0	0.0
20	0.321	0.032	0.032	0.037	0.012	0.010	0.047	0.0	0.0	0.0	0.0	0.0
21	2.957	0.027	0.010	0.052	0.010	0.004	0.012	0.0	0.0	0.0	0.0	0.0
22	0.669	0.020	0.008	0.024	0.008	0.006	0.007	0.0	0.0	0.0	0.0	0.0
23	0.092	0.026	0.012	0.006	0.006	0.007	0.005	0.0	0.0	0.0	0.0	0.0
24	0.049	0.017	0.007	0.004	0.008	4.451	0.004	0.0	0.0	0.0	0.0	0.0
25	0.037	0.011	0.006	0.002	0.168	0.505	0.004	0.0	0.0	0.0	0.0	0.0
26	0.026	0.008	0.005	0.002	0.162	0.810	0.004	0.0	0.0	0.0	0.0	0.0
27	0.026	0.005	0.006	0.002	0.177	0.024	0.004	0.0	0.0	0.0	0.005	0.0
28	0.049	0.483	0.006	0.002	0.012	0.015	0.003	0.0	0.0	0.0	0.002	0.0
29	0.041	0.021	0.005	0.001	0.005	0.014	0.002	0.0	0.0	0.0	0.0	0.0
30	0.104		0.005	0.0 T	0.004	0.011	0.001	0.0	0.0	0.0	0.944	0.0
31	0.065		0.003		0.004		0.0 T	0.0		0.0		0.0
MEAN	0.3205	0.1535	0.2134	0.1345	0.2492	0.4691	0.2093	0.0	0.0	0.0	0.0317	0.0106
INCHES	2.960	1.326	1.971	1.202	2.302	4.193	1.933	0.0	0.0	0.0	0.0	0.098
STA AV	0.437	0.482	0.468	0.776	0.952	0.637	0.149	0.067	0.116	0.125	0.348	0.302

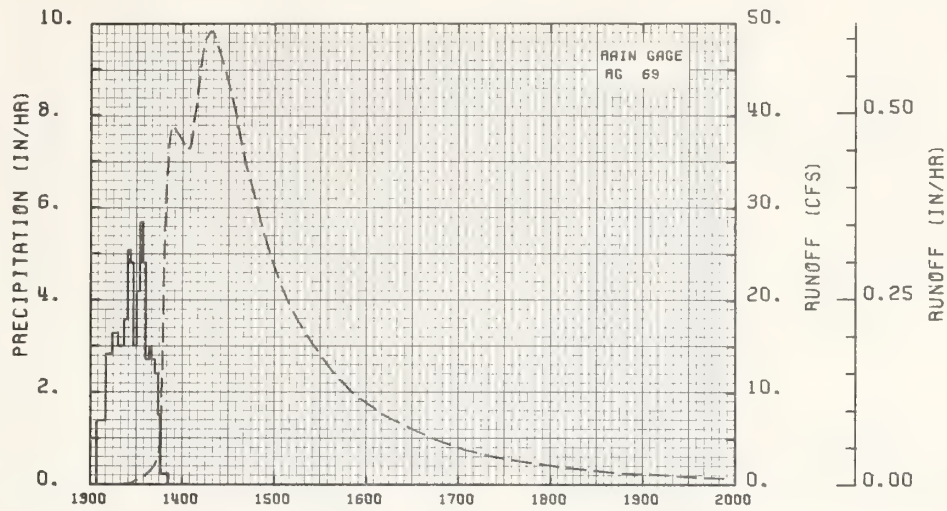
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.297891. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 26 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-4												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 19 - 20, 1968												
RG	69		RG	69								
7-19	0.0	0.001	7-19	1304	0.0	0.0	7-19	1307	0.01	0.0		
				1310	1.4000	0.14		1309	0.02	0.0		
				1314	2.8500	0.33		1311	0.03	0.0		
				1318	3.3000	0.55		1314	0.04	0.0		
				1322	3.0000	0.75		1316	0.06	0.0		
WATERSHED CONDITIONS:				1324	3.6000	0.87		1318	0.07	0.0		
31% pasture, Bermuda grass				1326	5.1001	1.04		1320	0.09	0.0		
and native grass, good cover,				1328	4.7999	1.20		1322	0.11	0.0		
moderately grazed; 31% row				1330	3.0000	1.30		1324	0.14	0.0001		
grain sorghum, maturing; 29%				1332	4.2000	1.44		1326	0.19	0.0002		
tilled, bare; 8% cotton, 12				1334	5.6999	1.63		1327	0.26	0.0003		
to 14 inches high; 1% gravel				1336	4.8001	1.79		1328	0.33	0.0004		
roads. Cropland terraced,				1338	2.7000	1.88		1329	0.48	0.0005		
cultivated on contour.				1340	3.0000	1.98		1330	0.55	0.0006		
				1342	2.7000	2.07		1331	0.62	0.0007		
				1344	2.4000	2.15		1332	0.71	0.0008		
				1346	1.5000	2.20		1333	0.80	0.0009		
				1351	0.2400	2.22		1334	0.90	0.0011		
								1336	1.11	0.0015		
								1337	1.25	0.0017		
								1338	1.41	0.0020		
								1339	1.62	0.0023		
								1340	1.77	0.0026		
								1341	1.96	0.0030		
								1342	2.29	0.0035		
								1343	2.68	0.0040		
								1344	3.10	0.0046		
								1345	3.91	0.0054		
								1346	6.98	0.0065		
								1347	14.99	0.0086		
								1348	25.61	0.0125		
								1349	30.70	0.0193		
								1350	34.16	0.0256		
								1351	36.63	0.0325		
								1352	38.20	0.0398		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.012412.

1968			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y-4		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968 (CONTINUED)											
							7-19	1353	38.97	0.0492	
								1355	38.46	0.0642	
								1400	37.13	0.1045	
								1403	36.19	0.1258	
								1405	36.69	0.1417	
								1407	38.97	0.1564	
								1409	41.36	0.1739	
								1411	44.33	0.1905	
								1413	46.84	0.2104	
								1415	48.35	0.2312	
								1418	49.18	0.2596	
								1420	48.84	0.2810	
								1425	46.36	0.3295	
								1430	43.33	0.3773	
								1433	41.36	0.4019	
								1436	38.84	0.4272	
								1439	36.19	0.4508	
								1442	33.98	0.4729	
								1445	32.30	0.4938	
								1448	30.30	0.5120	
								1451	28.40	0.5305	
								1454	26.60	0.5478	
								1457	25.01	0.5641	
								1500	23.46	0.5794	
								1505	21.18	0.6021	
								1510	19.27	0.6227	
								1515	17.77	0.6425	
								1520	16.45	0.6599	
								1525	15.17	0.6760	
								1530	14.02	0.6916	
								1535	12.86	0.7053	
								1540	11.73	0.7178	
								1545	10.93	0.7299	
								1550	10.06	0.7406	
								1555	9.38	0.7505	
								1600	8.82	0.7602	
								1605	8.24	0.7689	
								1610	7.67	0.7770	
								1615	7.15	0.7849	
								1620	6.82	0.7920	
								1625	6.42	0.7987	
								1630	5.97	0.8053	
								1635	5.59	0.8112	
								1640	5.22	0.8167	
								1645	4.86	0.8221	
								1650	4.57	0.8269	
								1704	3.74	0.8390	
								1724	2.97	0.8528	
								1744	2.40	0.8639	
								1804	1.93	0.8729	
								1824	1.56	0.8801	
								1844	1.24	0.8859	
								1904	1.11	0.8908	
								1934	0.81	0.8967	
								2004	0.65	0.9012	
								2034	0.51	0.9048	
								2104	0.39	0.9076	
								2134	0.32	0.9098	
								2204	0.26	0.9116	
								2234	0.22	0.9131	
								2304	0.19	0.9144	
								2400	0.15	0.9164	
							7-20	104	0.13	0.9183	
								204	0.11	0.9198	
								404	0.08	0.9221	
								604	0.06	0.9239	
								1200	0.04	0.9277	
								1400	0.03	0.9285	
								1800	0.01	0.9290	
								1800	0.01	0.9293	
								2400	0.02	0.9304	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.012412.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y-4

RIESEL (WACO), TEXAS WATERSHED Y-6

LOCATION: Falls Co., Texas; 18 mi. SE of Waco,; Brazos River Basin.

AREA: 16.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-6			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	5.10	3.42	3.26	4.29	6.81	8.70	5.64	0.36	3.65	0.83	5.95	0.59	48.60			
	O	1.713	0.832	1.530	0.780	1.999	2.993	1.072	0.0	0.0	0.0	0.208	0.045	11.173			
STA AV	P	2.12	2.71	2.13	4.00	4.05	3.87	1.57	2.12	2.63	2.69	3.01	2.27	33.17			
	O	0.309	0.369	0.330	0.694	0.829	0.609	0.120	0.048	0.106	0.221	0.354	0.280	4.268			
ANNUAL MAXIMUM DTSCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) POP SELECTED TIME INTERVALS																	
		Maximum Discharge				Maximum Volume for Selected Time Interval											
		Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1968		6- 2	1.415	6- 2	0.844	6- 2	1.046	6- 2	1.198	6- 2	1.222	6- 2	1.510	6- 2	1.752	5-27	1.802
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	3.790	3-29	1.900	3-29	2.340	3-29	2.950	3-29	3.130	3-29	3.670	11-22	4.870	4-19	8.490
1941				1965		1965		1965		1965		1965		1940		1957	

NOTES: Watershed conditions: 93% row grain sorghum; 5% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gauges 69B and 75A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.25S	1.41	0.0	1.57	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.17	0.0	3.29	1.48	0.0	0.0	0.0	0.70	0.02E		
3	0.17	0.0	0.0	0.32	0.69	0.57	0.0	0.0	0.43	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.88	0.0	0.0	0.0		
5	0.74	0.0	0.27	0.0	0.0	0.02E	0.0	0.0	0.07	0.01E	0.0	0.0		
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.07S	0.0	0.08P	0.0	0.68	0.0	0.71	0.0	0.0	0.0	0.87	0.0		
9	0.0 S	0.0	0.0	0.13	0.58	0.0	1.02	0.0	0.0	0.81	0.0	0.0		
10	0.0	0.0 E	1.36	0.0	2.19	0.0	0.03E	0.0	0.0	0.0	0.0	0.0		
11	0.01E	0.0	1.24	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.56	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.17		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.29	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.09	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.72	0.0		
16	0.0	0.0	0.0	0.0	0.01E	0.27	0.0	0.0	0.0	0.01E	0.0	0.0		
17	0.0	0.01E	0.0	0.0	1.39	0.0	0.0	0.0	0.60	0.0	0.0	0.0		
18	0.95	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E		
19	0.0	0.41	0.08E	0.32	0.0	0.0	2.11	0.0	0.0	0.0	0.0	0.0		
20	0.27	0.0	0.16	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.10		
21	1.30	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.12		
22	0.0	0.12S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.13		
23	0.01E	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0 E	0.0		
24	0.0	0.0	0.0	0.0	0.0	2.57	0.0	0.0	0.23	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.86	0.98	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.12E	0.0	0.0	1.04	0.0		
27	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	1.14	0.04E		
28	0.11E	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.46	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL		5.10	3.42	3.26	4.29	6.81	8.70	5.64	0.36	3.65	0.83	5.95	0.59	
STA AV		2.12	2.71	2.13	4.00	4.05	3.87	1.57	2.12	2.63	2.69	3.01	2.27	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gauges 69B and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 24 yr period.

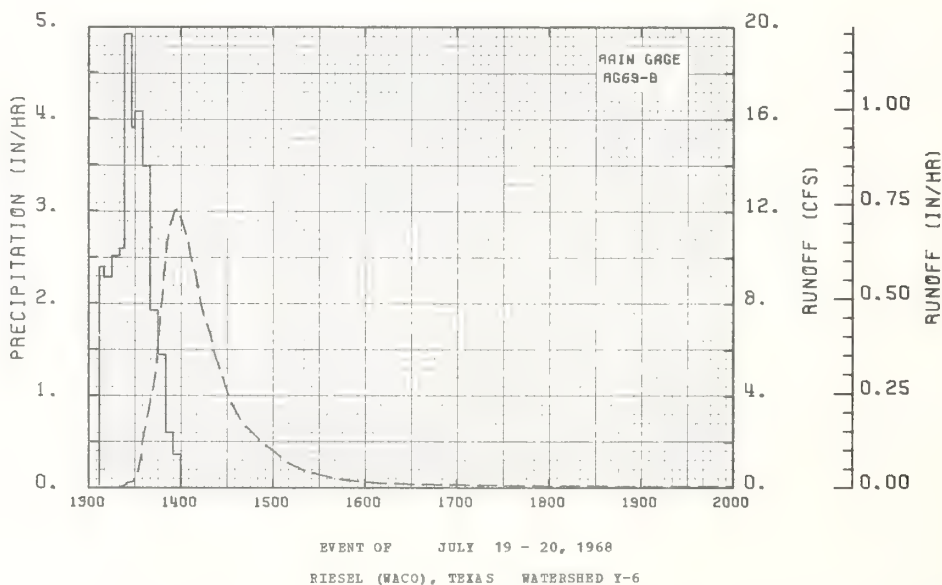
1968	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS				WATERSHED Y-6		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.001	0.403	0.002	0.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.030
2	0.0 T	0.036	0.002	0.127	0.0	0.938	0.160	0.0	0.0	0.0	0.0	0.001
3	0.002	0.008	0.001	0.056	0.002	0.265	0.006	0.0	0.0	0.0	0.0	0.0 T
4	0.001	0.004	0.001	0.012	0.0 T	0.022	0.0 T	0.0	0.0	0.0	0.0	0.0
5	0.028	0.003	0.002	0.003	0.0	0.006	0.0 T	0.0	0.0	0.0	0.0	0.0
6	0.025	0.001	0.005	0.001	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.001	0.001	0.001	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0 T	0.001	0.001	0.001	0.005	0.001	0.007	0.0	0.0	0.0	0.0	0.0
9	0.123	0.001	0.002	0.002	0.002	0.001	0.142	0.0	0.0	0.0	0.0	0.0
10	0.087	0.001	0.241	0.001	0.820	0.0 T	0.006	0.0	0.0	0.0	0.0	0.0
11	0.052	0.001	0.720	0.0 T	0.018	0.0 T	0.003	0.0	0.0	0.0	0.0	0.0
12	0.012	0.0 T	0.047	0.202	0.007	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0
13	0.003	0.0 T	0.005	0.031	0.003	0.0	0.003	0.0	0.0	0.0	0.0	0.0
14	0.002	0.012	0.002	0.005	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
15	0.001	0.007	0.002	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.001	0.003	0.002	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0 T	0.002	0.001	0.002	0.379	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.078	0.002	0.0 T	0.002	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.038	0.016	0.001	0.017	0.003	0.0	0.401	0.0	0.0	0.0	0.0	0.0
20	0.039	0.004	0.003	0.004	0.001	0.0	0.005	0.0	0.0	0.0	0.0	0.0
21	0.496	0.004	0.002	0.006	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
22	0.132	0.004	0.001	0.003	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
23	0.018	0.007	0.001	0.001	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
24	0.007	0.003	0.001	0.001	0.0	0.614	0.0	0.0	0.0	0.0	0.0	0.0
25	0.004	0.002	0.0 T	0.0 T	0.057	0.111	0.0	0.0	0.0	0.0	0.0	0.0
26	0.002	0.001	0.0 T	0.0 T	0.010	0.084	0.0	0.0	0.0	0.0	0.0	0.0
27	0.002	0.0 T	0.0 T	0.040	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.006	0.041	0.0 T	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
29	0.004	0.004	0.0 T	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
30	0.011	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.143	0.0
31	0.008	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0378	0.0197	0.0338	0.0178	0.0442	0.0683	0.0237	0.0	0.0	0.0	0.0048	0.0010
INCHES	1.713	0.832	1.530	0.780	1.999	2.993	1.072	0.0	0.0	0.0	0.208	0.045
STA AV	0.309	0.369	0.330	0.694	0.829	0.609	0.120	0.048	0.106	0.221	0.354	0.280

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.460215. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 24 yr period.

1968	SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS WATERSHED Y-6							
ANTECEDENT CONDITIONS				PAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)		
EVENT OF JULY 19 - 20, 1968												
7-19	RG 69-B 0.0	0.0	7-19	RG 69-B 1307	0.0	0.0	7-19	1307	0.0	0.0		
				1310	2.4000	0.12		1309	0.0	0.0		
				1315	2.2800	0.31		1311	0.0	0.0		
				1320	2.5200	0.52		1313	0.0	0.0		
				1323	2.6000	0.65		1315	0.01	0.0		
WATERSHED CONDITIONS: 93% row grain sorghum, maturing; 5% pasture, Beraudagrass, good cover, moderately grazed; 2% gravel roads. Cropland terraced, cultivated on contour.				1328	4.9200	1.06	1317	0.02	0.0			
				1330	3.8999	1.19	1319	0.03	0.0			
				1335	4.0800	1.53	1321	0.07	0.0001			
				1340	3.4800	1.82	1323	0.13	0.0003			
				1345	1.9200	1.98	1325	0.24	0.0007			
				1350	1.4400	2.10	1327	0.28	0.0012			
				1355	0.6000	2.15	1329	0.31	0.0018			
				1400	0.3600	2.18	1330	0.45	0.0023			
							1331	0.50	0.0028			
							1332	0.65	0.0034			
							1333	1.07	0.0042			
							1334	1.33	0.0056			
							1335	2.09	0.0072			
							1336	2.35	0.0093			
							1339	3.44	0.0182			
							1340	3.76	0.0216			
							1341	4.08	0.0253			
							1342	4.38	0.0303			
							1343	4.83	0.0347			
							1344	5.35	0.0395			
							1345	6.31	0.0864			
							1346	6.98	0.0527			
							1347	7.81	0.0597			
							1348	8.38	0.0674			
							1349	9.39	0.0780			
							1350	10.05	0.0972			
							1351	10.65	0.0970			
							1353	11.46	0.1206			
							1356	12.08	0.1542			
							1358	12.08	0.1800			

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
							7-19	1401	11.49	0.2164
								1404	10.79	0.2508
								1407	9.86	0.2802
								1410	9.12	0.3095
								1413	7.96	0.3359
								1416	7.25	0.3594
								1419	6.72	0.3810
								1422	5.80	0.3988
								1426	5.04	0.4207
								1432	3.79	0.4480
								1435	3.40	0.4591
								1440	2.80	0.4746
								1445	2.47	0.4884
								1450	2.15	0.4999
								1455	1.86	0.5099
								1500	1.59	0.5189
								1505	1.33	0.5262
								1510	1.07	0.5322
								1515	0.91	0.5374
								1520	0.74	0.5415
								1525	0.63	0.5449
								1530	0.57	0.5480
								1540	0.41	0.5529
								1550	0.30	0.5565
								1600	0.25	0.5593
								1610	0.19	0.5615
								1630	0.15	0.5650
								1700	0.11	0.5690
								1800	0.07	0.5745
								1900	0.04	0.5777
								2000	0.03	0.5796
								2200	0.02	0.5825
								2400	0.01	0.5846
							7-20	600	0.01	0.5888
								1030	0.0	0.5905
								1330	0.0	0.5910
								1630	0.0	0.5912
								2030	0.0	0.5912
								2400	0.0	0.5912

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060842.



RIESEL (WACO), TEXAS WATERSHED Y-7

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 40.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-7													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	5.17	3.35	3.18	4.20	6.81	8.82	5.20	0.75	3.16	0.83	6.05	0.67	48.19													
	O	2.700	1.223	1.918	1.028	2.294	4.362	1.134	0.0	0.0	0.0	0.304	0.037	15.001													
STA AV	P	2.15	2.75	2.16	4.08	4.07	3.82	1.54	2.17	2.57	2.71	3.06	2.29	33.38													
	O	0.367	0.481	0.461	0.876	0.985	0.722	0.113	0.115	0.163	0.202	0.454	0.357	5.294													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.																		
1968		6- 2 0.913	6- 2 0.738	6- 2 1.046	6-24 1.425	3-10 1.643	3-10 1.854	6- 2 2.221	5-10 2.257																		
MAXIMUMS FOR PERIOD OF RECORD																											
		6-10 3.590	4-19 2.340	3-29 2.960	3-29 3.580	3-29 3.840	3-29 4.660	11-22 5.370	4-19 8.890																		
		1941	1957	1965	1965	1965	1965	1940	1957																		

NOTES: Watershed conditions: 100% pasture, Bermudagrass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 89 and W-2A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968		DAILY PRECIPITATION (inches)						RIESEL (WACO), TEXAS			WATERSHED Y-7			
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.25S	1.30	0.0	1.53	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.11	0.0	3.17	1.47	0.0	0.0	0.0	0.62	0.03E	
	3	0.16	0.0	0.0	0.27	0.63	0.64	0.0	0.16	0.0	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.82	0.0	0.0	0.0	
	5	0.84	0.0	0.26	0.0	0.0	0.07E	0.0	0.0	0.06	0.01E	0.0	0.0	
	6	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	8	1.07S	0.0	0.08E	0.0	0.74	0.0	0.68	0.0	0.0	0.0	0.84	0.0	
	9	0.0 S	0.0	0.0	0.13	0.54	0.0	1.07	0.0	0.0	0.79	0.0	0.0	
	10	0.0	0.0 E	1.35	0.0	2.24	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	
	11	0.01E	0.0	1.23	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	12	0.0 E	0.0	0.0	1.56	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.23	
	13	0.0	0.03E	0.0	0.0	0.02E	0.0	0.16	0.0	0.0	0.0	0.0	0.0	
	14	0.0	0.65	0.0	0.0	0.0	0.0 E	0.0	0.0	1.02	0.0	0.0	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.66	0.0	
	16	0.0	0.0	0.0	0.0	0.00E	0.20	0.0	0.0	0.0	0.03E	0.0	0.0	
	17	0.0	0.00E	0.0	0.0	1.41	0.0	0.0	0.0	0.52	0.0	0.0	0.0	
	18	0.95	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	
	19	0.0	0.39	0.06E	0.35	0.0	0.0	1.80	0.0	0.0	0.0	0.0	0.0	
	20	0.26	0.0	0.14	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.05	
	21	1.28	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.18	
	22	0.0	0.10S	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.13	
	23	0.01E	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0 E	0.0	
	24	0.0	0.0	0.0	0.0	0.0	2.54	0.0	0.0	0.24	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.88	1.09	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.07E	0.0	0.0	1.11	0.0	
	27	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	1.29	0.04E	
	28	0.11E	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	1.51	0.0	
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	TOTAL	5.17	3.35	3.18	4.20	6.81	8.82	5.20	0.75	3.16	0.83	6.05	0.67	
	STA AV	2.15	2.75	2.16	4.08	4.07	3.82	1.54	2.17	2.57	2.71	3.06	2.29	

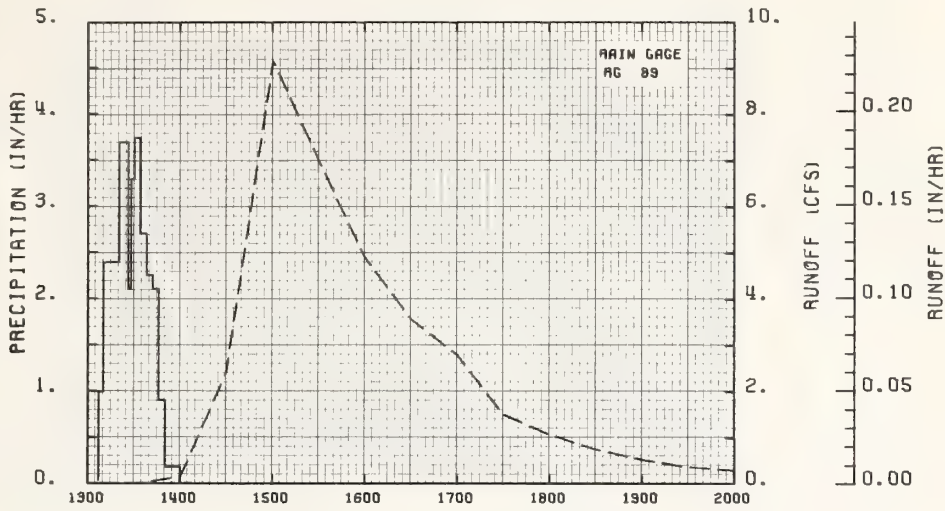
NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 89 and W-2A. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 24 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.002	1.466	0.0 T	0.144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.062
2	0.001	0.015	0.0	0.494	0.0	2.345	0.255	0.0	0.0	0.0	0.0	0.0 T
3	0.001	0.001	0.0	0.086	0.0 T	1.384	0.031	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0 T	0.0	0.010	0.0 T	0.051	0.0 T	0.0	0.0	0.0	0.0	0.0
5	0.345	0.0	0.001	0.0 T	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
6	0.077	0.0	0.009	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
7	0.001	0.0	0.001	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
9	0.456	0.0	0.004	0.0	0.0 T	0.0	0.877	0.0	0.0	0.0	0.0	0.0
10	0.484	0.0	0.461	0.0	2.482	0.0	0.003	0.0	0.0	0.0	0.0	0.0
11	0.124	0.0	2.679	0.0	0.018	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
12	0.029	0.0	0.064	0.934	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.004	0.0	0.003	0.054	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.001	0.027	0.0 T	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0 T	0.0	0.0	1.286	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.593	0.001	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.065	0.073	0.0	0.0 T	0.001	0.0	0.733	0.0	0.0	0.0	0.0	0.0
20	0.144	0.011	0.001	0.0 T	0.0 T	0.0	0.007	0.0	0.0	0.0	0.0	0.0
21	1.969	0.007	0.001	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.175	0.005	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.022	0.005	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.006	0.002	0.0	0.0	0.0	2.515	0.0	0.0	0.0	0.0	0.0	0.0
25	0.002	0.0 T	0.0	0.0	0.0 T	0.397	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.0 T	0.0	0.0	0.019	0.630	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.003	0.001	0.0	0.0	0.0	0.0	0.008	0.0
28	0.002	0.423	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.004	0.0
29	0.002	0.008	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.499	0.0
31	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.1464	0.0709	0.1040	0.0576	0.1243	0.2444	0.0615	0.0	0.0	0.0	0.0170	0.0020
INCHES	2.700	1.223	1.918	1.028	2.294	4.362	1.134	0.0	0.0	0.0	0.304	0.037
STA AV	0.367	0.481	0.461	0.876	0.985	0.722	0.113	0.115	0.163	0.202	0.454	0.357

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.595038. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 24 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-7											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968											
7-19	RG 89 0.0	0.0	7-19	RG 89	1307 0.0	0.0	7-19	1330	0.0	0.0	
					1310 1.0000	0.05		1400	0.16	0.0010	
					1320 2.4000	0.45		1430	2.44	0.0172	
					1326 3.7000	0.82		1500	9.15	0.0891	
					1328 2.1000	0.89		1530	6.97	0.1890	
WATERSHED CONDITIONS: 100% pasture, Bermudagrass, fair cover, moderately grazed.					1330 3.3000	1.00		1600	4.88	0.2624	
					1334 3.7500	1.25		1630	3.54	0.3146	
					1338 2.7000	1.43		1700	2.77	0.3538	
					1342 2.2500	1.58		1730	1.48	0.3802	
					1346 2.1000	1.72		1800	1.05	0.3959	
					1350 0.9000	1.78		1830	0.73	0.4070	
					1400 0.1800	1.81		1900	0.51	0.4147	
								1930	0.35	0.4201	
								2000	0.28	0.4240	
								2030	0.21	0.4270	
7-20								2130	0.12	0.4311	
								2230	0.09	0.4377	
								2330	0.06	0.4355	
								2400	0.04	0.4361	
								200	0.03	0.4378	
								400	0.02	0.4388	
								600	0.01	0.4394	
								900	0.0	0.4399	
								1200	0.0	0.4402	
								1500	0.0	0.4403	
								1800	0.0	0.4403	
								2040	0.0	0.4403	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.024793.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED I-7

RIESEL (WACO), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 20.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													RIESEL (WACO), TEXAS WATERSHED Y-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	5.07	3.28	3.29	4.27	6.86	8.81	5.39	0.35	3.55	0.79	6.00	0.59	49.25
	O	2.097	0.993	1.658	0.839	2.462	4.210	1.518	0.0	0.0	0.0	0.138	0.022	13.937
STA AV	P	2.04	2.72	2.23	4.10	3.97	4.02	1.61	2.16	2.74	2.80	3.10	2.30	33.78
	O	0.349	0.416	0.397	0.811	0.891	0.671	0.133	0.067	0.143	0.134	0.408	0.307	4.729
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	Maximum Volume for Selected Time Interval				6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.	
1968		6-2 2.093	6-2 1.119	6-2 1.382	6-2 1.515	6-2 1.533	6-2 1.966	6-2 2.355	5-27 2.446					
MAXIMUMS FOR PERIOD OF RECORD														
		6-10 3.290	4-19 2.410	4-19 2.800	4-23 3.320	4-23 3.370	3-29 3.590	11-22 5.640	4-19 9.100					
		1941	1957	1957	1957	1957	1965	1940	1957					

NOTES: Watershed conditions: 95% cotton; 3% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. Precipitation data obtained from rain gage 75A. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.24S	1.32	0.0	1.52	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.17	0.0	3.42	1.58	0.0	0.0	0.0	0.0	0.71		0.03E
3	0.17	0.0	0.0	0.30	0.70	0.61	0.0	0.0	0.38	0.0	0.0	0.0		0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.85	0.0	0.0	0.0		0.0
5	0.77	0.0	0.25	0.0	0.0	0.03E	0.0	0.0	0.09	0.01E	0.0	0.0		0.0
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
8	1.04S	0.0	0.08E	0.0	0.68	0.0	0.71	0.0	0.0	0.0	0.85	0.0		0.0
9	0.0 S	0.0	0.0	0.12	0.55	0.0	0.93	0.0	0.0	0.76	0.0	0.0		0.0
10	0.0	0.0 E	1.30	0.0	2.20	0.0	0.03E	0.0	0.0	0.0	0.0	0.0		0.0
11	0.01E	0.0	1.27	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
12	0.0 E	0.0	0.0	1.58	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0		0.17
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.18	0.0	0.0	0.0	0.0	0.0		0.0
14	0.0	0.63	0.0	0.0	0.0	0.0 E	0.0	0.0	1.04	0.0	0.0	0.0		0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.73	0.0		0.0
16	0.0	0.0	0.0	0.0	0.02E	0.22	0.0	0.0	0.0	0.02E	0.0	0.0		0.0
17	0.0	0.02E	0.0	0.0	1.39	0.0	0.0	0.0	0.58	0.0	0.0	0.0		0.0
18	0.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E		0.0
19	0.0	0.41	0.07E	0.35	0.0	0.0	1.96	0.0	0.0	0.0	0.0	0.0		0.0
20	0.26	0.0	0.15	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.09		0.0
21	1.28	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.13		0.0
22	0.0	0.12S	0.0	0.0	0.0	0.10F	0.0	0.0	0.0	0.0	0.0	0.13		0.0
23	0.0 E	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0		0.0
24	0.0	0.0	0.0	0.0	0.0	2.52	0.0	0.0	0.23	0.0	0.0	0.0		0.0
25	0.0	0.0	0.0	0.0	0.91	1.06	0.0	0.0	0.0	0.0	0.0	0.0		0.0
26	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.08E	0.0	0.0	1.03	0.0		0.0
27	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	1.21	0.03E		0.0
28	0.10E	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0		0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
30	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.43	0.0		0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL		5.07	3.28	3.29	4.27	6.86	8.81	5.39	0.35	3.55	0.79	6.00		0.59
STA AV		2.04	2.72	2.23	4.10	3.97	4.02	1.61	2.16	2.74	2.80	3.10		2.30

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 75A. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.545	0.004	0.107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019
2	0.0	0.068	0.004	0.191	0.0	1.691	0.365	0.0	0.0	0.0	0.0	0.0
3	0.0	0.019	0.001	0.060	0.001	0.367	0.014	0.0	0.0	0.0	0.0	0.0
4	0.0	0.006	0.0	0.005	0.0 T	0.019	0.0 T	0.0	0.0	0.0	0.0	0.0
5	0.028	0.002	0.004	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
6	0.025	0.0 T	0.014	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.003	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
8	0.003	0.0	0.002	0.0	0.003	0.0	0.015	0.0	0.0	0.0	0.0	0.0
9	0.180	0.0	0.009	0.0	0.002	0.0	0.425	0.0	0.0	0.0	0.0	0.0
10	0.177	0.0	0.200	0.0	1.283	0.0	0.002	0.0	0.0	0.0	0.0	0.0
11	0.084	0.0	1.059	0.0	0.021	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
12	0.024	0.0	0.105	0.340	0.006	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
13	0.006	0.0	0.024	0.023	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0
14	0.004	0.022	0.007	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.001	0.011	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0 T	0.005	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0 T	0.005	0.001	0.0	0.582	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.126	0.004	0.0 T	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.062	0.044	0.001	0.003	0.0 T	0.0	0.500	0.0	0.0	0.0	0.0	0.0
20	0.089	0.012	0.006	0.0 T	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
21	0.717	0.014	0.0 T	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.179	0.007	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.041	0.015	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.017	0.007	0.0	0.0	0.0	1.238	0.0	0.0	0.0	0.0	0.0	0.0
25	0.007	0.003	0.0	0.0	0.155	0.235	0.0	0.0	0.0	0.0	0.0	0.0
26	0.002	0.001	0.0	0.0	0.013	0.126	0.0	0.0	0.0	0.0	0.0	0.0
27	0.003	0.0	0.0	0.0	0.073	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
28	0.012	0.069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.006	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.120	0.0
31	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0591	0.0299	0.0467	0.0244	0.0694	0.1226	0.0428	0.0	0.0	0.0	0.0040	0.0006
INCHES	2.097	0.993	1.658	0.839	2.462	4.210	1.518	0.0	0.0	0.0	0.138	0.022
STA AV	0.349	0.416	0.397	0.811	0.891	0.671	0.133	0.067	0.143	0.134	0.408	0.307

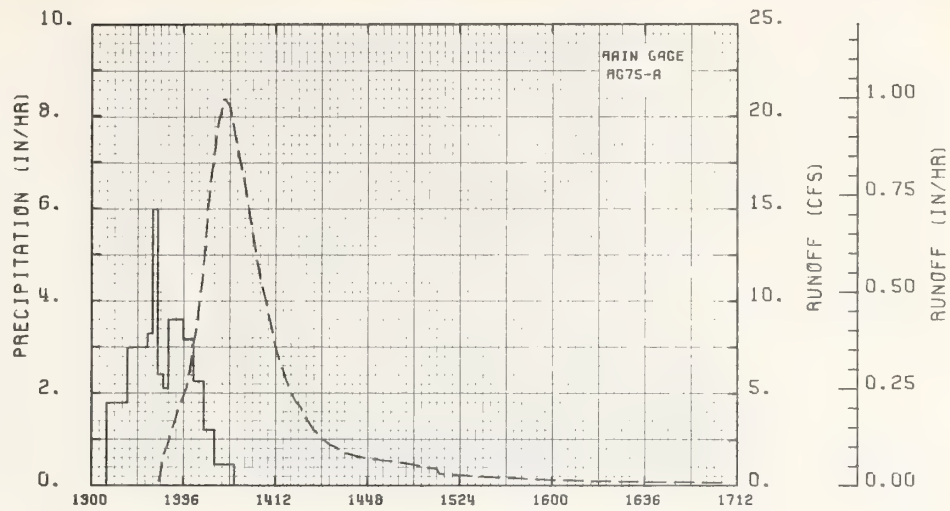
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.144303. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 22 yr period.

1968			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y-8		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968											
7-19	RG 75-A		7-19	RG 75-A			7-19				
	0.0	0.0		1306	0.0	0.0		1310	0.0	0.0	
				1310	1.8000	0.12		1312	0.0	0.0	
				1314	1.8000	0.24		1314	0.0	0.0	
				1318	3.0000	0.44		1319	0.01	0.0	
				1322	3.0000	0.64		1324	0.01	0.0	
WATERSHED CONDITIONS:											
95% cotton, 12 to 14 inches											
high; 3% pasture, Bermuda-											
grass, good cover, moderately											
grazed; 2% gravel roads.											
Cropland terraced, cultivated											
on contour.											
				1324	3.3000	0.75		1326	0.01	0.0	
				1326	6.0001	0.95		1327	0.66	0.0003	
				1328	2.4000	1.03		1328	1.62	0.0011	
				1330	2.1000	1.10		1329	1.94	0.0024	
				1332	3.6001	1.22		1330	2.37	0.0044	
				1336	3.6000	1.46		1331	2.78	0.0063	
				1340	3.1500	1.67		1332	3.25	0.0085	
				1344	2.2500	1.82		1333	3.68	0.0111	
				1348	1.2000	1.90		1334	4.18	0.0148	
				1356	0.4500	1.96		1335	4.51	0.0180	
								1336	4.87	0.0215	
								1337	5.28	0.0253	
								1338	5.91	0.0305	
								1339	6.84	0.0352	
								1340	7.76	0.0406	
								1341	8.53	0.0467	
								1342	9.64	0.0552	
								1343	10.70	0.0628	
								1344	11.96	0.0712	
								1345	13.99	0.0833	
								1346	15.73	0.0944	
								1347	16.93	0.1066	
								1348	17.82	0.1195	
								1349	19.11	0.1367	
								1350	19.93	0.1512	
								1352	20.91	0.1816	
								1354	20.54	0.2163	
								1356	19.11	0.2458	
								1358	17.64	0.2766	
								1400	16.36	0.3051	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047679.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-8							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
							7-19			
								1402	14.56	0.3281
								1404	12.81	0.3510
								1406	11.25	0.3689
								1408	10.11	0.3868
								1410	8.80	0.4009
								1412	7.53	0.4146
								1414	6.55	0.4251
								1416	5.80	0.4354
								1418	5.02	0.4435
								1420	4.53	0.4515
								1422	4.18	0.4580
								1424	3.59	0.4645
								1427	3.01	0.4725
								1430	2.54	0.4792
								1433	2.21	0.4845
								1436	2.02	0.4896
								1439	1.76	0.4942
								1442	1.63	0.4983
								1447	1.46	0.5044
								1452	1.37	0.5099
								1457	1.30	0.5154
								1502	1.20	0.5203
								1507	1.07	0.5247
								1515	0.88	0.5311
								1516	0.63	0.5317
								1524	0.54	0.5354
								1534	0.45	0.5393
								1544	0.39	0.5426
								1559	0.29	0.5466
								1619	0.22	0.5507
								1639	0.18	0.5539
								1659	0.16	0.5566
								1729	0.14	0.5602
								1759	0.10	0.5631
								1829	0.08	0.5652
								1859	0.05	0.5667
								1959	0.03	0.5687
								2059	0.02	0.5699
								2159	0.02	0.5708
								2400	0.01	0.5720
							7-20			
								600	0.01	0.5742
								1200	0.0	0.5754
								1400	0.0	0.5756
								1500	0.0	0.5756
								1700	0.0	0.5756

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047679.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED Y-8

RIESEL (WACO), TEXAS WATERSHED Y-10

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 18.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS				WATERSHED Y-10			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	5.13	3.47	3.28	4.35	6.80	8.72	5.88	0.43	3.69	0.83	6.04	0.59	49.20	
	O	1.104	1.168	2.058	0.946	1.474	4.265	1.855	0.0	0.0	0.0	0.454	0.247	15.571	
STA AV	P	2.19	2.61	2.17	3.98	4.06	3.75	1.53	2.11	2.62	2.59	2.95	2.31	32.89	
	O	0.446	0.420	0.454	0.921	0.787	0.683	0.148	0.087	0.202	0.183	0.421	0.336	5.089	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6- 2	1.344	6- 2	1.025	6- 2	1.393	6- 2	1.733	3-10	1.896	6- 2	2.128	6- 2	2.348
														5-28	2.369
MAXIMUMS FOR PERIOD OF RECORD															
		4-19	3.730	4-19	2.900	4-19	3.480	3-29	4.130	3-29	4.270	4-23	5.340	4-19	10.57
		1957		1957		1957		1965		1965		1965		1957	

NOTES: Watershed conditions: 93% fall planted small grain, largely oats; 4% pasture; 3% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69 and 69B. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED Y-10	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.25S	1.45	0.0	1.61	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.18	0.0	3.33	1.58	0.0	0.0	0.0	0.0	0.73	0.02E
3	0.17	0.0	0.0	0.33	0.72	0.53	0.0	0.0	0.41	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.89	0.0	0.0	0.0	0.0
5	0.73	0.0	0.27	0.0	0.0	0.01E	0.0	0.0	0.07	0.01E	0.0	0.0	0.0
6	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.11S	0.0	0.09E	0.0	0.66	0.0	0.73	0.0	0.0	0.0	0.89	0.0	0.0
9	0.0 S	0.0	0.0	0.13	0.57	0.0	0.98	0.0	0.0	0.81	0.0	0.0	0.0
10	0.0	0.00E	1.34	0.0	2.19	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0
11	0.01E	0.0	1.28	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.00E	0.0	0.0	1.55	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.17
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.10	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.72	0.0	0.0
16	0.0	0.0	0.0	0.0	0.01E	0.29	0.0	0.0	0.0	0.00E	0.0	0.0	0.0
17	0.0	0.01E	0.0	0.0	1.40	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0
18	0.93	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0
19	0.0	0.41	0.08E	0.34	0.0	0.0	2.19	0.0	0.0	0.0	0.0	0.0	0.0
20	0.26	0.0	0.16	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.09
21	1.30	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.13
22	0.0	0.12S	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.13
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0 E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	2.60	0.0	0.22	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.84	0.93	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.21	0.0	0.0	1.07	0.0	0.0
27	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	1.14	0.04E	0.0
28	0.10E	0.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		5.13	3.47	3.28	4.35	6.80	8.72	5.88	0.43	3.69	0.83	6.04	0.59
STA AV		2.19	2.61	2.17	3.98	4.06	3.75	1.53	2.11	2.62	2.59	2.95	2.31

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69 and 69B. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.005	0.838	0.0	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.140
2	0.0 T	0.001	0.0	0.208	0.0	1.354	0.322	0.0	0.0	0.0	0.0	0.043
3	0.002	0.0	0.0	0.077	0.0	0.479	0.016	0.0	0.0	0.0	0.0	0.009
4	0.0 T	0.0	0.0	0.003	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.001
5	0.217	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0 T
6	0.046	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0
9	0.289	0.0	0.0	0.0	0.0 T	0.0	0.369	0.0	0.0	0.0	0.0	0.0
10	0.364	0.0	0.463	0.0	0.808	0.0	0.001	0.0	0.0	0.0	0.0	0.0
11	0.087	0.0	1.137	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.014	0.0	0.008	0.395	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0	0.003	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
14	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.333	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.304	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.025	0.005	0.0	0.0 T	0.0	0.0	0.739	0.0	0.0	0.0	0.0	0.0
20	0.098	0.0 T	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
21	0.899	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.069	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	1.202	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.001	0.106	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.171	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.015	0.0
28	0.0	0.061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0
29	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
30	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.328	0.0
31	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0782	0.0315	0.0519	0.0246	0.0372	0.1111	0.0468	0.0	0.0	0.0	0.0118	0.0062
INCHES	3.104	1.168	2.058	0.946	1.474	4.265	1.855	0.0	0.0	0.0	0.454	0.247
STA AV	0.446	0.420	0.454	0.921	0.787	0.683	0.148	0.087	0.202	0.183	0.421	0.336

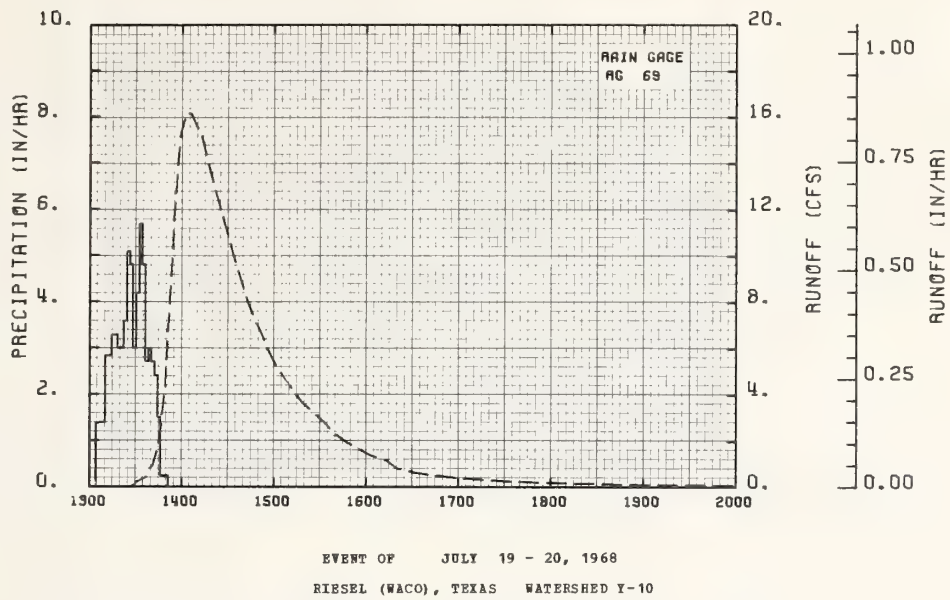
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 1.279651. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 25 yr period.

1968			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y-10		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 19 - 20, 1968											
RG	69		RG	69							
7-19	0.0	0.0	7-19	1304	0.0	0.0	7-19	1315	0.0	0.0	
				1310	1.4000	0.14		1317	0.0	0.0	
				1314	2.8500	0.33		1320	0.0	0.0	
				1318	3.3000	0.55		1324	0.01	0.0	
				1322	3.0000	0.75		1325	0.01	0.0	
WATERSHED CONDITIONS:											
93% tilled, bare; 4% pasture,											
Bermudagrass, good cover,											
moderately grazed; 3% gravel											
roads. Cropland terraced,											
contour cultivation.											
				1324	3.6000	0.87		1326	0.02	0.0	
				1326	5.1001	1.04		1327	0.04	0.0	
				1328	4.7999	1.20		1328	0.08	0.0	
				1330	3.0000	1.30		1329	0.13	0.0001	
				1332	4.2000	1.44		1330	0.18	0.0003	
				1334	5.6999	1.63		1331	0.25	0.0005	
				1336	4.8001	1.79		1333	0.33	0.0010	
				1338	2.7000	1.88		1335	0.41	0.0017	
				1340	3.0000	1.98		1337	0.46	0.0024	
				1342	2.7000	2.07		1338	0.58	0.0029	
				1344	2.4000	2.15		1339	0.74	0.0035	
				1346	1.5000	2.20		1340	0.89	0.0042	
				1351	0.2400	2.22		1341	0.94	0.0050	
								1342	1.22	0.0061	
								1343	1.41	0.0072	
								1344	1.73	0.0085	
								1345	1.97	0.0104	
								1346	2.49	0.0123	
								1347	3.21	0.0147	
								1348	3.78	0.0176	
								1349	4.20	0.0218	
								1350	5.66	0.0259	
								1351	7.01	0.0312	
								1352	8.14	0.0375	
								1353	9.47	0.0467	
								1354	10.59	0.0551	
								1355	11.96	0.0645	
								1356	12.81	0.0748	
								1357	13.89	0.0887	
								1358	14.62	0.1006	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.053319.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-10						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
									Acc. (inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)									
7-19							1359	15.33	0.1131
							1401	15.83	0.1423
							1403	16.16	0.1689
							1406	16.09	0.2126
							1409	15.63	0.2555
							1413	15.07	0.3099
							1418	13.70	0.3728
							1423	12.44	0.4327
							1428	11.31	0.4846
							1433	10.08	0.5314
							1438	8.99	0.5751
							1443	7.94	0.6121
							1448	7.13	0.6450
							1453	6.40	0.6760
							1458	5.64	0.7023
							1503	5.04	0.7257
							1508	4.55	0.7477
							1513	4.12	0.7667
							1518	3.66	0.7837
							1523	3.34	0.7998
							1528	3.05	0.8138
							1533	2.75	0.8265
							1538	2.39	0.8383
							1543	2.12	0.8482
							1548	1.88	0.8569
							1553	1.72	0.8652
							1558	1.52	0.8723
							1603	1.34	0.8786
							1608	1.22	0.8845
							1613	1.13	0.8896
							1620	0.79	0.8956
							1630	0.63	0.9020
							1640	0.53	0.9071
							1700	0.37	0.9152
							1730	0.24	0.9233
							1800	0.17	0.9288
							1830	0.13	0.9328
							1900	0.09	0.9358
							2000	0.06	0.9398
							2100	0.04	0.9423
							2200	0.03	0.9439
							2300	0.02	0.9451
							2400	0.01	0.9459
7-20							300	0.0	0.9472
							600	0.0	0.9477
							900	0.0	0.9479
							1030	0.0	0.9479
							1300	0.0	0.9479

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.053319.



RIESEL (WACO), TEXAS WATERSHED SW-12

LOCATION: McLennan Co., Texas; 18 mi. SE of Waco; Brazos River Basin.

AREA: 2.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED SW-12	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	4.44	3.42	3.01	4.55	6.92	9.12	5.74	0.59	3.74	0.75	6.20	0.60	49.08	
	Q	3.083	1.898	2.269	1.606	2.511	4.339	2.039	0.0	0.0	0.0	0.135	0.017	17.901	
STA AV	P	2.17	2.68	2.14	4.00	4.02	3.86	1.56	2.09	2.61	2.59	2.95	2.27	32.93	
	Q	0.446	0.573	0.414	0.639	0.626	0.417	0.079	0.019	0.038	0.010	0.159	0.270	3.689	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days			
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-2	3.904	6-2	1.614	6-2	1.961	6-2	2.111	3-10	2.140	6-2	2.482	6-2	2.574
														5-27	2.577
MAXIMUMS FOR PERIOD OF RECORD															
		3-29	4.000	3-29	3.070	3-29	3.830	3-29	4.620	3-29	4.800	3-29	5.340	3-29	5.390
		1965		1965		1965		1965		1965		1965		1957	8.530

NOTES: Watershed conditions: 100% native grass meadow mowed annually for hay. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.24-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. Precipitation data obtained from rain gage 70. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.25S	1.44	0.0	1.64	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.22	0.0	3.60	1.89	0.0	0.0	0.0	0.80	0.03E			
3	0.17	0.0	0.0	0.37	0.80	0.53	0.0	0.0	0.38	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.96	0.0	0.0	0.0			
5	0.0	0.0	0.24	0.0	0.0	0.02E	0.0	0.0	0.08	0.02E	0.0	0.0			
6	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	1.16S	0.0	0.06E	0.0	0.70	0.0	0.75	0.0	0.0	0.0	0.89	0.0			
9	0.0 S	0.0	0.0	0.12	0.49	0.0	0.69	0.0	0.0	0.73	0.0	0.0			
10	0.0	0.0 E	1.27	0.0	2.31	0.0	0.09E	0.0	0.0	0.0	0.0	0.0			
11	-0.02E	0.0	1.14	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0 E	0.0	0.0	1.59	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0			0.18
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.27	0.0	0.0	0.0	0.0	0.0			0.0
14	0.0	0.64	0.0	0.0	0.0	0.0 E	0.0	0.0	1.09	0.0	0.0	0.0			0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.75	0.0			0.0
16	0.0	0.0	0.0	0.0	0.02E	0.29	0.0	0.0	0.0	0.0 E	0.0	0.0			0.0
17	0.0	0.0 E	0.0	0.0	1.38	0.0	0.0	0.0	0.67	0.0	0.0	0.0			0.0
18	0.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E			0.0
19	0.0	0.42	0.08E	0.39	0.0	0.0	2.05	0.0	0.0	0.0	0.0	0.0			0.0
20	0.26	0.0	0.14	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.07			0.0
21	1.29	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.14			0.0
22	0.0	0.13S	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.14			0.0
23	0.01E	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0			0.0
24	0.0	0.0	0.0	0.0	0.0	2.68	0.0	0.0	0.20	0.0	0.0	0.0			0.0
25	0.0	0.0	0.0	0.0	0.82	1.03	0.0 E	0.0	0.0	0.0	0.0	0.0			0.0
26	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.33	0.0	0.0	1.03	0.0			0.0
27	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	1.19	0.03E			0.0
28	0.10E	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0			0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
30	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48	0.0			0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
TOTAL	4.44	3.42	3.01	4.55	6.92	9.12	5.74	0.59	3.74	0.75	6.20	0.60			
STA AV	2.17	2.68	2.14	4.00	4.02	3.86	1.56	2.09	2.61	2.59	2.95	2.27			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 25 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.004	0.174	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
2	0.0 T	0.0 T	0.0	0.033	0.0	0.267	0.088	0.0	0.0	0.0	0.0	0.0 T
3	0.002	0.0	0.0	0.014	0.0	0.054	0.0 T	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
5	0.046	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.092	0.0	0.0	0.0	0.0 T	0.0	0.025	0.0	0.0	0.0	0.0	0.0
10	0.009	0.0	0.111	0.0	0.215	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.001	0.0	0.172	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.001	0.0	0.0 T	0.090	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.003	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.098	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.066	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.001	0.012	0.0	0.0	0.0	0.0	0.141	0.0	0.0	0.0	0.0	0.0
20	0.014	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
21	0.133	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.159	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0 T	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
28	0.0	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.0
31	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0124	0.0082	0.0091	0.0067	0.0101	0.0180	0.0082	0.0	0.0	0.0	0.0006	0.0001
INCHES	3.083	1.898	2.269	1.606	2.515	4.339	2.039	0.0	0.0	0.0	0.135	0.017
STA AV	0.446	0.573	0.414	0.639	0.626	0.417	0.079	0.019	0.038	0.010	0.159	0.270

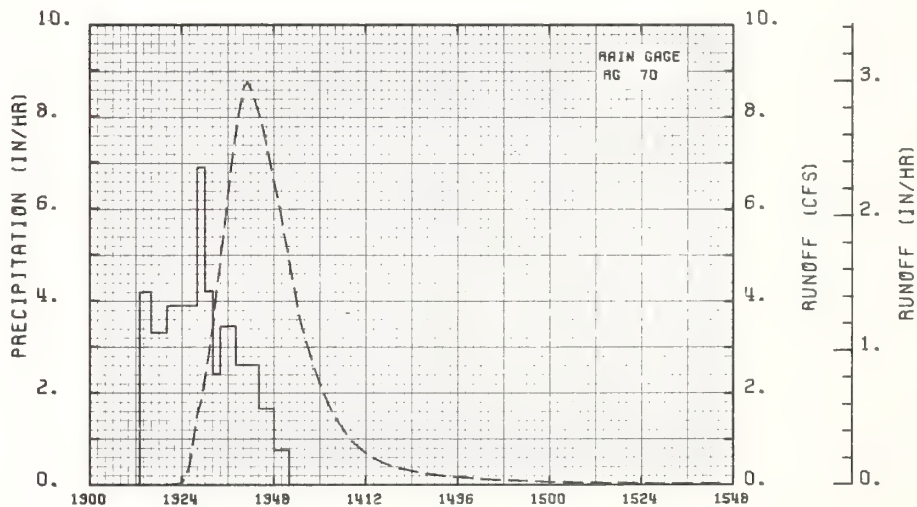
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 8.013973. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 25 yr period.

1968			SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS							WATERSHED SW-12	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.					
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)					
EVENT OF JULY 19 - 20, 1968															
RG	70		RG	70											
7-19	0.0	0.0	7-19	1313	0.0	0.0	7-19	1308	0.0	0.0					
				1316	4.2000	0.21		1313	0.0	0.0					
				1320	3.3000	0.43		1317	0.01	0.0001					
				1324	3.9000	0.69		1320	0.01	0.0003					
				1328	3.9000	0.95		1322	0.02	0.0005					
WATERSHED CONDITIONS: 100% native grass meadow, 18 inches high.				1330	6.8999	1.18		1323	0.04	0.0007					
				1332	4.2000	1.32		1324	0.07	0.0010					
				1334	2.4000	1.40		1325	0.17	0.0016					
				1338	3.4500	1.63		1326	0.49	0.0033					
				1344	2.6000	1.89		1327	1.01	0.0082					
				1348	1.6500	2.00		1328	1.54	0.0149					
				1352	0.7500	2.05		1329	1.86	0.0238					
								1330	2.35	0.0375					
								1331	2.83	0.0510					
								1332	3.42	0.0673					
								1333	4.23	0.0873					
								1334	4.90	0.1171					
								1335	5.55	0.1444					
								1336	6.32	0.1754					
								1337	6.98	0.2101					
								1338	7.63	0.2577					
								1339	8.15	0.2989					
								1340	8.60	0.3426					
								1341	8.76	0.3879					
								1342	8.58	0.4445					
								1343	8.34	0.4887					
								1345	7.77	0.5833					
								1347	6.96	0.6602					
								1349	6.23	0.7377					
								1351	5.29	0.7978					
								1352	4.85	0.8243					
								1353	4.39	0.8544					
								1354	3.92	0.8761					
								1355	3.51	0.8955					
								1356	3.22	0.9131					

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.333916.

1968	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-12						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)										
7-19							1357		2.94	0.9332
							1358		2.66	0.9478
							1359		2.41	0.9610
							1400		2.19	0.9760
							1401		1.97	0.9868
							1402		1.78	0.9966
							1403		1.62	1.0055
							1404		1.48	1.0156
							1405		1.32	1.0229
							1406		1.21	1.0295
							1407		1.08	1.0355
							1408		0.97	1.0422
							1410		0.82	1.0515
							1412		0.68	1.0603
							1414		0.58	1.0669
							1416		0.49	1.0731
							1418		0.42	1.0778
							1420		0.37	1.0824
							1422		0.33	1.0861
							1424		0.29	1.0897
							1426		0.26	1.0925
							1428		0.23	1.0953
							1431		0.20	1.0989
							1434		0.17	1.1021
							1438		0.15	1.1056
							1443		0.11	1.1091
							1448		0.10	1.1119
							1453		0.08	1.1144
							1458		0.06	1.1163
							1508		0.04	1.1193
							1518		0.03	1.1214
							1528		0.02	1.1230
							1538		0.02	1.1242
							1558		0.01	1.1259
							1628		0.01	1.1274
							1800		0.0	1.1294
							2100		0.0	1.1302
							2400		0.0	1.1305
7-20							1200		0.0	1.1309

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333916.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED SW-12

RIESEL (WACO), TEXAS WATERSHED SW-17

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

ARPA: 2.99 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										RIESEL (WACO), TEXAS				WATERSHED SW-17			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	4.88	3.35	3.37	4.05	6.50	7.78	4.98	0.95	2.95	0.87	5.72	0.65	46.05			
	O	2.854	1.724	2.508	1.560	2.900	3.818	2.164	0.0	0.0	0.0	0.610	0.009	18.149			
STA AV	P	2.06	2.75	2.17	4.17	3.97	3.76	1.63	2.21	2.72	2.83	3.09	2.34	33.69			
	O	0.435	0.618	0.555	0.966	0.878	0.811	0.196	0.077	0.192	0.172	0.505	0.480	5.883			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days	
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		5-17	1.273	6-24	0.822	6-24	1.138	5-10	1.488	3-10	2.161	3-10	2.351	3-10	2.378	5- 9	2.637
MAXIMUMS FOR PERIOD OF RECORD																	
		10-31	7.060	4-19	2.540	4-19	2.960	4-23	3.310	3-29	3.520	3-29	4.250	11-22	5.370	4-19	9.420
		1940		1957		1957		1957		1965		1965		1940		1957	

NOTES: Watershed conditions: 100% Bermuda grass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.28-5. Precipitation and runoff record began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. Precipitation data obtained from rain gauge W-2. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)												RIESEL (WACO), TEXAS WATERSHED SW-17	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	1.37	0.0	1.37	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.11	0.0	2.51	1.06	0.0	0.0	0.0	0.0	0.53	0.02E
3	0.17	0.0	0.0	0.33	0.52	0.47	0.0	0.0	0.19	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.70	0.0	0.0	0.0	0.0
5	0.85	0.0	0.28	0.0	0.0	0.09E	0.0	0.0	0.06	0.01E	0.0	0.0	0.0
6	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.00S	0.0	0.08E	0.0	0.56	0.0	0.66	0.0	0.0	0.0	0.0	0.82	0.0
9	0.0 S	0.0	0.0	0.10E	0.72	0.0	1.54	0.0	0.0	0.82	0.0	0.0	0.0
10	0.0	0.0 E	1.42	0.0	2.13	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0
11	0.01E	0.0	1.30	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0 E	0.0	0.0	1.55	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.25
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.62	0.0	0.0	0.0	0.0 E	0.0	0.0	0.97	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.69	0.0
16	0.0	0.0	0.0	0.0	0.02E	0.13	0.0	0.0	0.0	0.0	0.04E	0.0	0.0
17	0.0	0.0 E	0.0	0.0	1.46	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0
18	0.96	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 E
19	0.0	0.39	0.07E	0.31	0.0	0.0	1.54	0.0	0.0	0.0	0.0	0.0	0.0
20	0.28	0.0	0.15	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.09
21	1.26	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.13
22	0.0	0.11S	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.13
23	0.01E	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	2.45	0.0	0.0	0.22	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.80	1.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.03E	0.0	0.0	1.11	0.0	0.0
27	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	1.09	0.03E	0.0
28	0.11	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.23		0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	1.40	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0	0.0
TOTAL		4.88	3.35	3.37	4.05	6.50	7.78	4.98	0.95	2.95	0.87	5.72	0.65
STA AV		2.06	2.75	2.17	4.17	3.97	3.76	1.63	2.21	2.72	2.83	3.09	2.34

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gauge W-2. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 23 yr period.

1968	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS					WATERSHED SW-17		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.120	0.001	0.033	0.0 T	0.003	0.003	0.0	0.0	0.0	0.0	0.001	
2	0.0	0.001	0.001	0.032	0.0 T	0.142	0.021	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.001	0.001	0.005	0.0 T	0.057	0.002	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.001	0.0 T	0.0 T	0.0 T	0.003	0.002	0.0	0.0	0.0	0.0	0.0	
5	0.037	0.001	0.001	0.0 T	0.0 T	0.002	0.002	0.0	0.0	0.0	0.0	0.0	
6	0.003	0.0 T	0.003	0.001	0.0 T	0.002	0.002	0.0	0.0	0.0	0.0	0.0	
7	0.0 T	0.0 T	0.001	0.001	0.0 T	0.002	0.003	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.001	0.001	0.001	0.001	0.002	0.005	0.0	0.0	0.0	0.0	0.0	
9	0.096	0.001	0.002	0.001	0.001	0.002	0.117	0.0	0.0	0.0	0.0	0.0	
10	0.015	0.001	0.101	0.001	0.210	0.002	0.002	0.0	0.0	0.0	0.0	0.0	
11	0.002	0.001	0.197	0.001	0.001	0.003	0.003	0.0	0.0	0.0	0.0	0.0	
12	0.001	0.001	0.002	0.093	0.001	0.003	0.003	0.0	0.0	0.0	0.0	0.0	
13	0.0 T	0.001	0.001	0.002	0.001	0.004	0.004	0.0	0.0	0.0	0.0	0.0	
14	0.0 T	0.011	0.001	0.001	0.001	0.004	0.004	0.0	0.0	0.0	0.0	0.0	
15	0.0 T	0.002	0.0 T	0.001	0.001	0.003	0.005	0.0	0.0	0.0	0.0	0.0	
16	0.0 T	0.002	0.0 T	0.001	0.001	0.001	0.007	0.0	0.0	0.0	0.0	0.0	
17	0.0 T	0.002	0.0 T	0.001	0.121	0.001	0.006	0.0	0.0	0.0	0.0	0.0	
18	0.045	0.002	0.0 T	0.001	0.002	0.0 T	0.005	0.0	0.0	0.0	0.0	0.0	
19	0.003	0.010	0.0 T	0.004	0.001	0.0 T	0.062	0.0	0.0	0.0	0.0	0.0	
20	0.007	0.002	0.0 T	0.003	0.001	0.001	0.002	0.0	0.0	0.0	0.0	0.0	
21	0.135	0.002	0.0 T	0.004	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0	
22	0.011	0.001	0.0 T	0.002	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0	
23	0.0 T	0.002	0.0 T	0.002	0.001	0.002	0.002	0.0	0.0	0.0	0.0	0.0	
24	0.0 T	0.003	0.0 T	0.002	0.001	0.174	0.002	0.0	0.0	0.0	0.0	0.0	
25	0.0 T	0.003	0.0 T	0.002	0.006	0.040	0.003	0.0	0.0	0.0	0.0	0.0	
26	0.0 T	0.003	0.0 T	0.001	0.005	0.021	0.001	0.0	0.0	0.0	0.004	0.0	
27	0.0 T	0.003	0.0 T	0.0 T	0.002	0.001	0.001	0.0	0.0	0.0	0.016	0.0	
28	0.001	0.038	0.0 T	0.0 T	0.001	0.001	0.0	0.0	0.0	0.0	0.0 T	0.0	
29	0.0 T	0.002	0.0 T	0.0 T	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.001		0.0 T	0.0 T	0.001	0.002	0.0	0.0	0.0	0.0	0.057	0.0	
31	0.001		0.0 T		0.002		0.0	0.0		0.0		0.0	
MEAN	0.0116	0.0075	0.0102	0.0065	0.0118	0.0160	0.0088	0.0	0.0	0.0	0.0026	0.0	
INCHES	2.854	1.724	2.508	1.560	2.900	3.818	2.164	0.0	0.0	0.0	0.610	0.009	
STA AV	0.435	0.618	0.555	0.966	0.878	0.811	0.196	0.077	0.192	0.172	0.505	0.480	

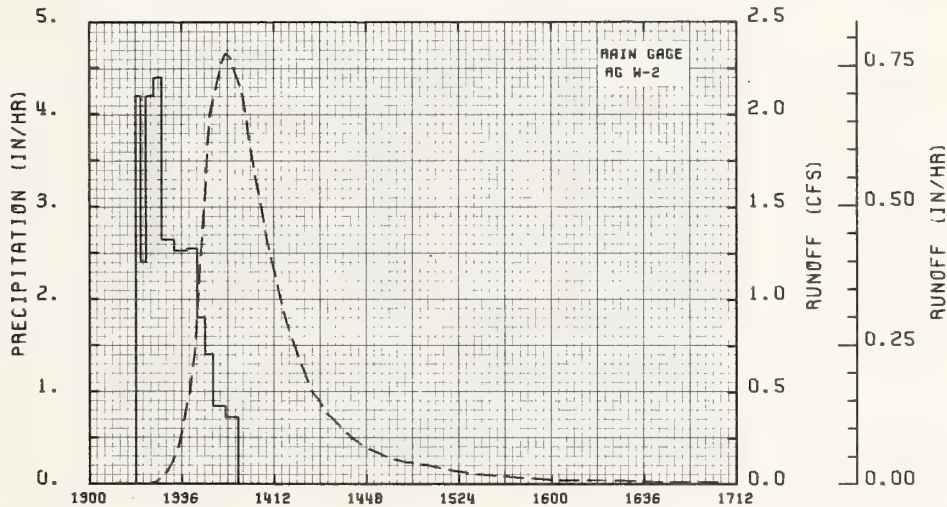
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.960368. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 23 yr period.

1968	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED SW-17		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF JULY 19 - 20, 1968													
7-19	RG W-2 0.0	0.020	7-19	RG W-2	0.0	0.0	7-19	1324	0.01	0.0			
				1320	4.1999	0.14		1325	0.01	0.0			
				1322	2.4000	0.22		1327	0.03	0.0002			
				1325	4.2000	0.43		1328	0.04	0.0004			
				1328	4.4000	0.65		1329	0.05	0.0006			
WATERSHED CONDITIONS: 100% Bermudagrass pasture, 10 inches high.				1333	2.6400	0.87		1330	0.07	0.0010			
				1338	2.5200	1.08		1331	0.09	0.0014			
				1342	2.5500	1.25		1332	0.12	0.0019			
				1345	1.8000	1.34		1333	0.15	0.0026			
				1348	1.4000	1.41		1334	0.19	0.0037			
				1353	0.8400	1.48		1335	0.22	0.0048			
				1358	0.7200	1.54		1336	0.29	0.0061			
								1337	0.37	0.0078			
								1338	0.44	0.0104			
								1339	0.50	0.0128			
								1340	0.61	0.0157			
								1341	0.72	0.0192			
								1342	0.94	0.0246			
								1343	1.18	0.0301			
								1344	1.36	0.0367			
								1345	1.55	0.0461			
								1346	1.81	0.0548			
								1347	2.00	0.0647			
								1349	2.13	0.0888			
								1351	2.25	0.1115			
								1353	2.33	0.1382			
								1355	2.30	0.1622			
								1357	2.21	0.1885			
								1359	2.14	0.2110			
								1401	2.00	0.2352			
								1402	1.89	0.2453			
								1404	1.71	0.2662			
								1407	1.50	0.2911			
								1409	1.33	0.3076			
								1411	1.21	0.3208			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331682.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED SW-17		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF JULY 19 - 20, 1968 (CONTINUED)								
				7-19			1413	1.09
							1415	0.97
							1417	0.86
							1419	0.78
							1422	0.66
							1425	0.56
							1427	0.49
							1429	0.46
							1432	0.39
							1437	0.32
							1442	0.25
							1447	0.20
							1452	0.17
							1457	0.14
							1502	0.12
							1512	0.10
							1522	0.07
							1532	0.05
							1542	0.04
							1552	0.03
							1602	0.02
							1622	0.02
							1642	0.01
							1702	0.01
							1800	0.01
							2000	0.0
							2400	0.0
				7-20			2400	0.0

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331682.



EVENT OF JULY 19 - 20, 1968
RIESEL (WACO), TEXAS WATERSHED SW-17

RIESEL (WACO), TEXAS WATERSHED P-1

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										RIESEL (WACO), TEXAS				WATERSHED P-1	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30	
	O	2.048	1.515	1.784	1.525	2.987	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.858	
STA AV	P	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62	
	O	0.499	0.563	0.555	0.703	0.761	0.641	0.028	0.093	0.111	0.009	0.334	0.279	4.576	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		5-17	3.192	5-10	0.882	5-10	1.194	5-10	1.740	5-9	1.823	5-9	1.828	5-8	1.828
														5-9	2.957
MAXIMUMS FOR PERIOD OF RECORD															
		6-10	7.180	3-29	2.160	3-29	2.930	3-29	3.420	3-29	3.640	3-29	4.630	4-24	5.620
		1941		1965		1965		1965		1965		1965		1966	1966
NOTES: Watershed conditions: 100% Bermudagrass and Buffalograss pasture, heavily grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gage W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.															

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED P-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.18	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.16S	0.0	0.10E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED P-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.010	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.002	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0 T	0.0	0.005	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0 T	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.015	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0007	0.0005	0.0006	0.0005	0.0010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	2.048	1.515	1.784	1.525	2.987	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.499	0.563	0.555	0.703	0.761	0.641	0.028	0.093	0.111	0.009	0.334	0.279

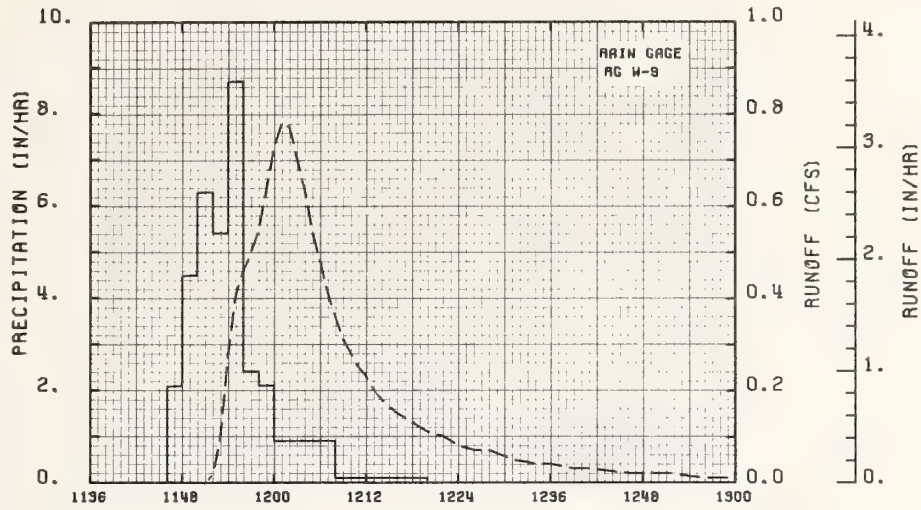
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED P-1												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 17, 1968												
5-17	RG W-9 0.0	0.0	5-17	RG W-9	0.0	0.0	5-17	1151	0.0	0.0		
				1146	0.0	0.0		1152	0.02	0.0006		
				1148	2.1000	0.07		1153	0.10	0.0048		
				1150	4.4999	0.22		1154	0.28	0.0176		
				1152	6.3001	0.43		1155	0.41	0.0407		
				1154	5.3999	0.61						
				1156	8.7001	0.90		1156	0.46	0.0702		
				1158	2.4000	0.98		1157	0.50	0.1033		
				1200	2.1000	1.05		1158	0.55	0.1390		
				1208	0.9000	1.17		1159	0.64	0.1794		
				1220	0.1000	1.19		1200	0.73	0.2266		
				1320	0.0	1.19		1201	0.78	0.2780		
				1330	0.1800	1.22		1202	0.77	0.3306		
				1400	0.1400	1.29		1203	0.70	0.3804		
				1430	0.1800	1.38		1204	0.63	0.4261		
				1500	0.1800	1.47		1205	0.54	0.4655		
				1530	0.1600	1.55		1206	0.48	0.4998		
				1600	0.0800	1.59		1207	0.41	0.5299		
				1900	0.0100	1.62		1208	0.36	0.5563		
								1209	0.31	0.5790		
								1210	0.28	0.5991		
								1211	0.25	0.6171		
								1212	0.23	0.6335		
								1213	0.20	0.6480		
								1214	0.18	0.6609		
								1216	0.15	0.6837		
								1217	0.14	0.6937		
								1218	0.13	0.7028		
								1220	0.11	0.7192		
								1222	0.10	0.7333		
								1224	0.08	0.7456		
								1226	0.07	0.7563		
								1228	0.07	0.7659		
								1231	0.05	0.7782		
								1234	0.04	0.7883		
								1236	0.04	0.7938		

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED P-1								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 17, 1968 (CONTINUED)											
							5-17	1239	0.03	0.8006	
								1241	0.03	0.8044	
								1246	0.02	0.8122	
								1251	0.02	0.8181	
								1256	0.01	0.8229	
								1301	0.01	0.8268	
								1306	0.01	0.8300	
								1311	0.01	0.8326	
								1316	0.01	0.8348	
								1326	0.01	0.8386	
								1336	0.01	0.8422	
								1356	0.01	0.8501	
								1406	0.01	0.8548	
								1416	0.01	0.8608	
								1426	0.01	0.8690	
								1436	0.02	0.8798	
								1446	0.02	0.8937	
								1456	0.03	0.9104	
								1506	0.03	0.9302	
								1531	0.03	0.9860	
								1541	0.03	1.0075	
								1546	0.03	1.0174	
								1551	0.03	1.0268	
								1556	0.02	1.0353	
								1601	0.02	1.0427	
								1606	0.02	1.0494	
								1616	0.02	1.0619	
								1626	0.01	1.0722	
								1636	0.01	1.0806	
								1646	0.01	1.0875	
								1656	0.01	1.0931	
								1716	0.01	1.1015	
								1736	0.0	1.1075	
								1756	0.0	1.1118	
								1826	0.0	1.1161	
								1856	0.0	1.1186	
								1956	0.0	1.1221	
								2056	0.0	1.1248	
								2156	0.0	1.1271	
								2256	0.0	1.1286	
								2400	0.0	1.1290	

NOTES: To convert runoff in CPS to IN/HR, multiply by 4.08119.



EVENT OF MAY 17, 1968
RIESEL (WACO), TEXAS WATERSHED P-1

RIESEL (WACO), TEXAS WATERSHED P-2

LOCATION: Falls Co., Texas; 19 mi. S.E. of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS				WATERSHED P-2				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30			
	0.533	1.243	2.084	1.702	3.311	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.874			
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62			
	0.456	0.674	0.780	0.781	0.831	0.882	0.065	0.149	0.186	0.037	0.529	0.436	5.806			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		2 Days		8 Days			
	Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968	5-17	3.336	5-10	0.943	5-10	1.302	5-10	1.888	5- 9	2.037	5- 9	2.083	5- 9	2.126	5- 9	3.164
MAXIMUMS FOR PERIOD OF RECORD																
	6-10	6.650	3-29	2.240	3-29	3.110	3-29	3.940	3-29	4.500	3-29	6.220	3-29	6.220	3-29	6.240
	1941		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: 100% Bermudagrass and Buffalograss pasture, heavily grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gauge W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968	DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS WATERSHED P-2							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.19	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	1.16S	0.0	0.10F	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.02F	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gauge W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED P-2													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0 T	0.007	0.0 T	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0 T	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0 T	0.0	0.006	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.014	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.001	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.001	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.001	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0 T	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0 T	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.003	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0002	0.0004	0.0007	0.0006	0.0011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.533	1.243	2.084	1.702	3.311	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.456	0.674	0.780	0.781	0.831	0.882	0.065	0.149	0.186	0.037	0.529	0.436	

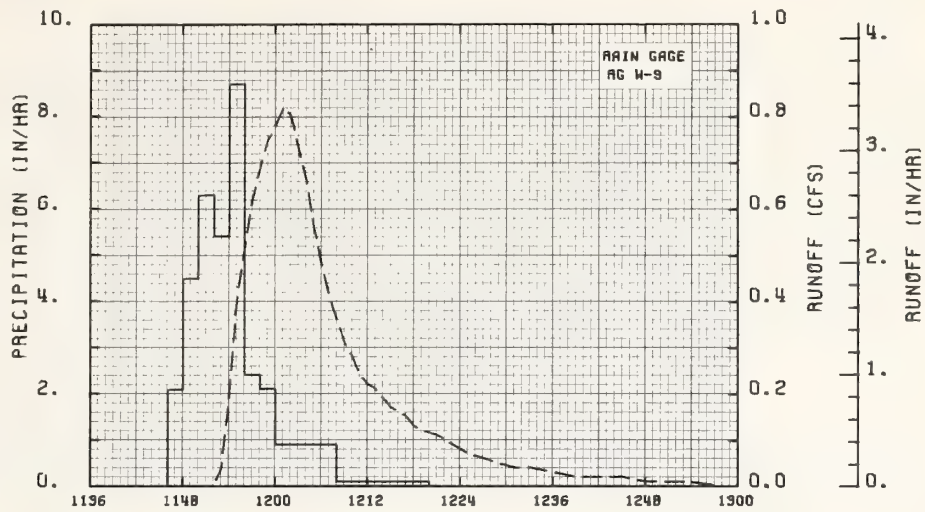
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED P-2		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 17 - 18, 1968											
5-17	RG W-9			RG W-9			5-17	1147	0.0	0.0	
	0.0	0.0	5-17	1146	0.0	0.0		1149	0.0	0.0001	
				1148	2.1000	0.07		1151	0.0	0.0002	
				1150	4.4999	0.22		1152	0.0	0.0003	
				1152	6.3001	0.43		1153	0.04	0.0017	
				1154	5.3999	0.61					
WATERSHED CONDITIONS:											
100% pasture, Bermuda grass											
and Buffalograss, 2 to 6											
inches high, dense cover,											
grazed.											
				1156	8.7001	0.90		1154	0.19	0.0095	
				1158	2.4000	0.98		1155	0.40	0.0295	
				1200	2.1000	1.05		1156	0.51	0.0602	
				1208	0.9000	1.17		1157	0.62	0.0990	
				1220	0.1000	1.19		1158	0.69	0.1432	
				1320	0.0	1.19		1159	0.75	0.1917	
				1330	0.1800	1.22		1200	0.78	0.2441	
				1400	0.1400	1.29		1201	0.82	0.2982	
				1430	0.1800	1.38		1202	0.80	0.3530	
				1500	0.1800	1.47		1203	0.73	0.4049	
				1530	0.1600	1.55		1204	0.66	0.4528	
				1600	0.0800	1.59		1205	0.56	0.4941	
				1900	0.0100	1.62		1206	0.48	0.5292	
								1207	0.41	0.5594	
								1208	0.36	0.5858	
								1209	0.31	0.6084	
								1210	0.28	0.6283	
								1211	0.24	0.6459	
								1212	0.22	0.6619	
								1213	0.21	0.6765	
								1214	0.19	0.6901	
								1215	0.17	0.7027	
								1216	0.16	0.7140	
								1217	0.15	0.7245	
								1218	0.13	0.7340	
								1219	0.12	0.7427	
								1221	0.11	0.7580	
								1223	0.09	0.7711	
								1225	0.07	0.7818	
								1227	0.06	0.7908	

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED P-2						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 17 - 18, 1968 (CONTINUED)										
							5-17	1229	0.05	0.7986
								1231	0.04	0.8051
								1233	0.04	0.8103
								1236	0.03	0.8168
								1239	0.02	0.8221
								1242	0.02	0.8265
								1245	0.02	0.8300
								1248	0.01	0.8327
								1253	0.01	0.8361
								1258	0.0	0.8383
								1303	0.0	0.8398
								1308	0.0	0.8409
								1313	0.0	0.8417
								1328	0.0	0.8435
								1343	0.0	0.8457
								1358	0.0	0.8485
								1403	0.0	0.8496
								1408	0.0	0.8510
								1413	0.01	0.8528
								1418	0.01	0.8552
								1423	0.01	0.8584
								1428	0.01	0.8624
								1433	0.02	0.8672
								1438	0.02	0.8731
								1443	0.02	0.8797
								1458	0.02	0.9016
								1508	0.03	0.9188
								1528	0.03	0.9565
								1548	0.02	0.9916
								1558	0.02	1.0058
								1608	0.01	1.0165
								1618	0.01	1.0242
								1628	0.01	1.0299
								1638	0.01	1.0341
								1648	0.0	1.0370
								1658	0.0	1.0389
								1728	0.0	1.0430
								1800	0.0	1.0466
								2000	0.0	1.0532
								2400	0.0	1.0566
							5-18	1100	0.0	1.0609

NOTES: To convert runoff in CPS to IN/HR, multiply by 4.08119.



EVENT OF May 17 - 18, 1968
RIESEL (WACO), TEXAS WATERSHED P-2

RIESEL (WACO), TEXAS WATERSHED P-3

LOCATION: Falls Co., Texas; 19 mi. S.E. of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										RIESEL (WACO), TEXAS		WATERSHED P-3					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	5.31	2.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30			
	O	2.341	1.989	2.747	1.741	2.593	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.411			
STA AV	P	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62			
	O	0.594	0.764	0.660	0.821	0.975	0.817	0.056	0.111	0.204	0.074	0.492	0.390	5.959			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours Vol.	Date	12 Hours Vol.	Date	Days Vol.	Date	Days Vol.		
1968		5-17	1.747	5-10	0.808	3-10	1.238	3-10	1.701	3-10	2.368	3-10	2.559	3-10	2.629	3- 4	2.745
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	7.630	6-10	2.130	3-29	2.690	3-29	3.200	3-29	3.430	3-29	4.270	4-24	5.860	4-23	6.960
		1941		1941		1965		1965		1965		1965		1966		1966	

NOTES: Watershed conditions: 100% Beraudagrass and Buffalograss pasture, lightly grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gage W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED P-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.18	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.16S	0.0	0.10E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED P-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.010	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0 T	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.003	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.005	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0 T	0.0	0.011	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.001	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.004	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0 T	0.003	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.009	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0008	0.0007	0.0009	0.0006	0.0009	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	2.341	1.989	2.747	1.741	2.593	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.594	0.764	0.660	0.821	0.975	0.817	0.056	0.111	0.204	0.074	0.492	0.390

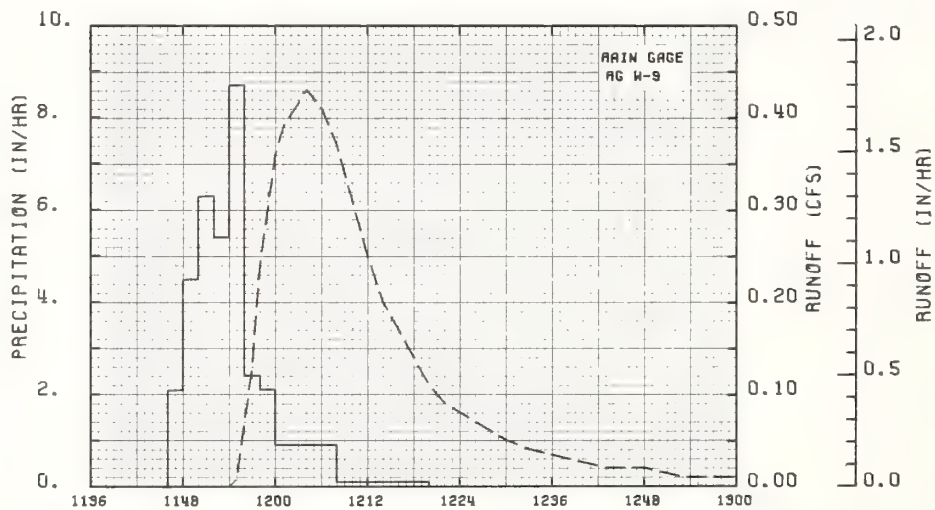
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED P-3						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 17 - 18, 1968												
5-17	RG W-9		5-17	RG W-9			5-17					
	0.0	0.0		1146	0.0	0.0		1154	0.0	0.0		
				1148	2.1000	0.07		1155	0.01	0.0005		
				1150	4.4999	0.22		1156	0.07	0.0033		
				1152	6.3001	0.43		1157	0.13	0.0102		
				1154	5.3999	0.61		1158	0.24	0.0228		
WATERSHED CONDITIONS: 100% pasture, Bermudagrass and Buffalograss, 6 to 36 inches high, dense cover, lightly grazed.				1156	8.7001	0.90		1159	0.30	0.0412		
				1158	2.4000	0.98		1200	0.36	0.0639		
				1200	2.1000	1.05		1201	0.39	0.0894		
				1208	0.9000	1.17		1204	0.43	0.1734		
				1220	0.1000	1.19		1206	0.41	0.2301		
				1320	0.0	1.19		1208	0.37	0.2831		
				1330	0.1800	1.22		1210	0.31	0.3289		
				1400	0.1400	1.29		1212	0.25	0.3671		
				1430	0.1800	1.38		1214	0.20	0.3979		
				1500	0.1800	1.47		1216	0.17	0.4231		
				1530	0.1600	1.55		1218	0.14	0.4440		
				1600	0.0800	1.59		1220	0.11	0.4614		
				1900	0.0100	1.62		1222	0.09	0.4752		
								1224	0.08	0.4868		
								1226	0.07	0.4967		
								1228	0.06	0.5054		
					1230	0.05	0.5130					
					1233	0.04	0.5223					
					1238	0.03	0.5343					
					1243	0.02	0.5433					
					1248	0.02	0.5499					
					1253	0.01	0.5549					
					1303	0.01	0.5622					
					1313	0.01	0.5673					
					1323	0.01	0.5713					
					1328	0.01	0.5731					
					1338	0.01	0.5772					
					1348	0.01	0.5826					
					1403	0.01	0.5932					
					1413	0.02	0.6029					

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED P-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF MAY 17 - 18, 1968 (CONTINUED)								
							5-17	1423
								1433
								1443
								1453
								1503
								1513
								1518
								1523
								1533
								1543
								1553
								1603
								1613
								1623
								1633
								1643
								1703
								1733
								1800
								1900
								2100
								2400
							5-18	200
								400
								620

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.



EVENT OF MAY 17 - 18, 1968
RIESEL (WACO), TEXAS WATERSHED P-3

RIESEL (WACO), TEXAS WATERSHED P-4

LOCATION: Falls Co., Texas; 19 mi. S.E. of Waco; Brazos River Basin.

AREA: 0.24 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS				WATERSHED P-4					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.30			
	O	1.587	1.108	1.387	1.115	2.426	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.623			
STA AV	P	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62	33.62			
	O	0.596	0.692	0.517	0.748	0.758	0.808	0.056	0.084	0.167	0.037	0.557	0.548	5.568			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968		5-17	1.701	5-10	0.799	5-10	1.028	5-10	1.525	5- 9	1.588	5- 9	1.602	5- 9	1.611	5- 9	2.395
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	7.790	11-22	2.150	3-29	2.430	3-29	2.860	3-29	3.010	3-29	3.700	4-24	6.280	4-23	6.960
		1941		1940		1965		1965		1965		1965		1966		1966	

NOTES: Watershed conditions: 100% Bermudagrass and Buffalograss pasture, lightly grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 42.31-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960; part-year amounts not included in averages. Station discontinued June 1, 1968. Precipitation data obtained from rain gauge W-9. For long-time precipitation records, see U.S. Weather Bureau records at Waco, Texas.

1968 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED P-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.23S	1.28	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.18	0.0	0.0	0.25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.84	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	1.16S	0.0	0.10E	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0 S	0.0	0.0	0.11	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0 E	0.88	0.0	2.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.02E	0.0	1.46	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0 E	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.04E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0 E	0.0	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.98	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.41	0.07E	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.29	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	1.31	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
28	0.11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.18		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.0		0.0		0.0		0.0				0.0			
TOTAL	5.31	3.34	3.15	3.99	6.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
STA AV	2.58	2.89	2.22	3.79	3.74	3.92	1.12	2.44	2.67	2.47	3.15	2.62		

NOTES: For daily air temperatures in the vicinity, see Watershed C, p. 42.002-1. Precipitation values are from rain gauge W-9. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED P-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.007	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0 T	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.002	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0 T	0.0	0.004	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.010	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0 T	0.005	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.005	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0 T	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.005	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0005	0.0004	0.0005	0.0004	0.0008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	1.587	1.108	1.387	1.115	2.426	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.596	0.692	0.517	0.748	0.758	0.808	0.056	0.084	0.167	0.037	0.557	0.548

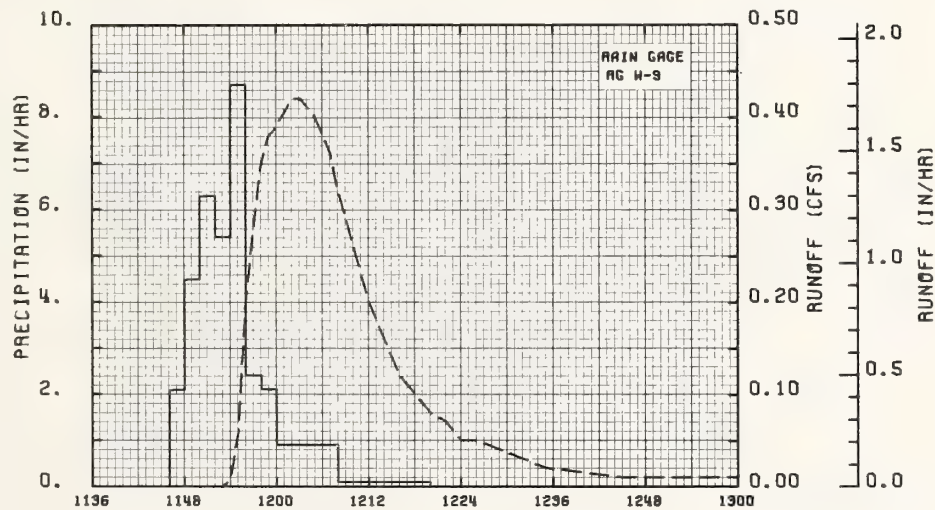
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 97.9486. Records began Jan. 1, 1938; station not in operation July 1943 to Jan. 1, 1960. STA AV based on 13 yr period.

1968 SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS WATERSHED P-4								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 17 - 18, 1968												
5-17	RG W-9		5-17	RG W-9			5-17					
	0.0	0.0		1146	0.0	0.0		1149	0.0	0.0		
				1148	2.1000	0.07		1150	0.0	0.0		
				1150	4.4999	0.22		1151	0.0	0.0001		
				1152	6.3001	0.43		1152	0.0	0.0002		
				1154	5.3999	0.61		1153	0.0	0.0004		
WATERSHED CONDITIONS:				1156	8.7001	0.90		1154	0.01	0.0009		
100% pasture, Bermudagrass				1158	2.4000	0.98		1155	0.06	0.0032		
and Buffalograss, 6 to 36				1200	2.1000	1.05		1156	0.20	0.0118		
inches high, dense cover,				1208	0.9000	1.17		1157	0.28	0.0283		
lightly grazed.				1220	0.1000	1.19		1158	0.35	0.0496		
				1320	0.0	1.19		1159	0.38	0.0742		
				1330	0.1800	1.22		1200	0.39	0.1008		
				1400	0.1400	1.29		1202	0.42	0.1558		
				1430	0.1800	1.38		1203	0.42	0.1840		
				1500	0.1800	1.47		1205	0.40	0.2400		
				1530	0.1600	1.55		1207	0.36	0.2917		
				1600	0.0800	1.59		1208	0.32	0.3151		
				1900	0.0100	1.62		1209	0.29	0.3359		
								1210	0.26	0.3545		
								1211	0.23	0.3710		
								1212	0.20	0.3860		
								1213	0.18	0.3991		
								1214	0.16	0.4107		
								1215	0.14	0.4211		
								1216	0.12	0.4302		
								1217	0.11	0.4382		
								1218	0.10	0.4453		
								1220	0.08	0.4577		
								1222	0.07	0.4679		
								1224	0.05	0.4763		
								1226	0.05	0.4833		
								1229	0.04	0.4921		
								1232	0.03	0.4991		
								1235	0.02	0.5048		
								1245	0.01	0.5176		

NOTES: To convert runoff in CFS to IN/HR, multiply by 4.08119.

1968	SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS WATERSHED P-4				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 17 - 18, 1968 (CONTINUED)											
				5-17				1250	0.01	0.5215	
								1255	0.01	0.5245	
								1300	0.01	0.5268	
								1310	0.0	0.5302	
								1320	0.0	0.5326	
								1330	0.0	0.5346	
								1340	0.0	0.5371	
								1350	0.01	0.5412	
								1400	0.01	0.5473	
								1410	0.01	0.5550	
								1420	0.02	0.5648	
								1430	0.02	0.5780	
								1440	0.03	0.5941	
								1450	0.03	0.6120	
								1510	0.03	0.6510	
								1530	0.03	0.6900	
								1540	0.02	0.7076	
								1550	0.02	0.7227	
								1600	0.02	0.7346	
								1610	0.01	0.7441	
								1620	0.01	0.7518	
								1630	0.01	0.7576	
								1640	0.01	0.7620	
								1700	0.0	0.7683	
								1720	0.0	0.7721	
								1740	0.0	0.7743	
								1800	0.0	0.7754	
								2400	0.0	0.7822	
				5-18				600	0.0	0.7824	

NOTES: To convert runoff in CPS to IN/HR, multiply by 4.08119.



EVENT OF MAY 17 - 18, 1968
RIESEL (WACO), TEXAS WATERSHED P-4

ALBUQUERQUE, NEW MEXICO WATERSHED W-I

LOCATION: Bernalillo, Co., N. M.; 19 mi. NW of Albuquerque, Rio Puerco, Rio Grande Basin.

AREA: 246.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														ALBUQUERQUE, NEW MEXICO WATERSHED W-I																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	0.0	0.0	0.0	0.0	0.41	0.02	2.30	1.57	0.03	0.48	0.0	0.0	4.81																	
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.026	0.0	0.0	0.187																	
STA AV	P	0.26	0.32	0.33	0.36	0.48	0.72	1.20	1.57	0.97	0.65	0.27	0.38	7.50																	
	Q	0.0	0.0	0.0	0.0	0.0	0.019	0.025	0.077	0.058	0.020	0.0	0.0	0.200																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval										2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days															
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1968		7-31	0.363	7-31	0.100	7-31	0.161	8- 4	0.161	8- 4	0.161	8- 3	0.161	8- 2	0.161	8- 2	0.161														
MAXIMUMS FOR PERIOD OF RECORD																															
		8-24	0.920	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.290	8-11	0.530												
		1957		1967		1967		1967		1967		1967		1967		1967															

NOTES: Watershed conditions: Rough broken rangeland. About 85% of area is bare. Sparse vegetation consists of short grasses (blue and black grama), shrubs and a few small juniper and piñon trees. Precipitation and runoff records started August, 1939. Record period interrupted for short intervals. Precipitation monthly values are Thiessen weighted averages from 3 rain gages. STA AV amounts were computed using values for the months with complete records. For topographic map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, ARS, Jan. 1960, p. 47.1-4. Revised topographic map not available. For long-time precipitation records, see U.S. Weather Bureau records at Albuquerque, N. Mex.

1968 DAILY PRECIPITATION (inches)														ALBUQUERQUE, NEW MEXICO WATERSHED W-I													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
2		0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.02E	0.0	0.0	0.0														
3		0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
4		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.48E	0.0	0.0														
5		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
6		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0														
7		0.0	0.0	0.0	0.0	0.0	0.02F	0.0	0.0	0.0	0.0	0.0	0.0														
8		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0														
9		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
10		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0														
11		0.0	0.0	0.0	0.0	0.37E	0.0	0.0	0.23	0.0	0.0	0.0	0.0														
12		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
13		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0														
14		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
15		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
16		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
17		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
18		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
19		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
20		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0														
21		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
22		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
23		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
24		0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0														
25		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
26		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0														
27		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
28		0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0														
29		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
30		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
31		0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.0	0.0	0.0	0.0	0.0														
TOTAL		0.0	0.0	0.0	0.0	0.41	0.02	2.30	1.57	0.03	0.48	0.0	0.0														
STA AV		0.26	0.32	0.33	0.36	0.48	0.72	1.20	1.57	0.97	0.65	0.27	0.38														

NOTES: Daily amounts are Thiessen weighted amounts from 3 rain gages (R-1, R-2, and R-7). Precipitation records began August, 1939, have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968		MEAN DAILY DISCHARGE (cfs)					ALBUQUERQUE, NEW MEXICO WATERSHED W-I						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E	0.0	0.265	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	1.668	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0538	0.0	0.0	0.0085	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.161	0.0	0.0	0.026	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.019	0.025	0.077	0.058	0.020	0.0	0.0	

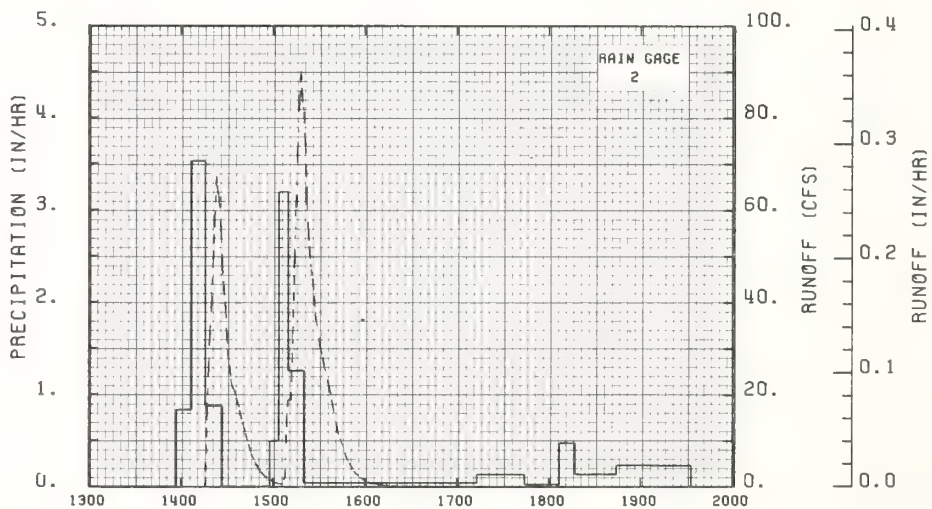
NOTES: To convert mean daily discharge amounts to CPS to IN/HR, multiply by 0.09675. Runoff records began August, 1939, have been continuous except for short periods of interrupted records. STA AV amounts were computed using value for the months with complete records.

1968	SELECTED RUNOFF EVENT						ALBUQUERQUE, NEW MEXICO WATERSHED W-I					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 31, 1968												
RG 02			RG 02									
7-31	0.0	0.0	7-31	1357	0.0	0.0	7-31	1416	0.0	0.0		
				1407	0.8400	0.14		1417	16.400	0.0005		
				1416	3.5333	0.67		1418	25.900	0.0018		
				1427	0.8727	0.83		1419	33.300	0.0041		
				1458	0.0	0.83		1420	40.600	0.0064		
WATERSHED CONDITIONS: Sparse vegetation consists of short grasses (blue and black grama), shrubs, and a few small juniper and pinion trees.				1504	0.5000	0.88		1421	49.400	0.0092		
				1510	3.2000	1.20		1422	58.200	0.0126		
				1520	1.2600	1.41		1423	67.200	0.0175		
				1713	0.0425	1.49		1424	64.000	0.0216		
				1744	0.1355	1.56		1425	62.500	0.0256		
				1807	0.0261	1.57		1426	55.300	0.0293		
				1817	0.4800	1.65		1427	47.600	0.0334		
				1844	0.1333	1.71		1428	42.800	0.0362		
				1907	0.2348	1.80		1429	38.400	0.0388		
				1933	0.2308	1.90		1430	32.200	0.0416		
							1431	28.500	0.0435			
							1432	25.100	0.0452			
							1433	22.200	0.0467			
							1434	21.400	0.0484			
							1435	20.700	0.0497			
							1437	18.200	0.0522			
							1439	15.500	0.0546			
							1441	12.900	0.0564			
							1443	10.600	0.0581			
							1445	8.240	0.0594			
							1447	6.300	0.0603			
							1449	4.830	0.0611			
							1451	3.730	0.0616			
							1453	2.760	0.0621			
							1455	2.150	0.0624			
							1459	1.260	0.0629			
							1502	0.790	0.0631			
							1504	0.560	0.0632			
							1506	0.410	0.0633			
							1508	2.250	0.0635			

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00403.

1968 SELECTED RUNOFF EVENT			ALBUQUERQUE, NEW MEXICO WATERSHED W-I					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								(cfs)
								Acc.
								(inches)
EVENT OF JULY 31, 1968 (CONTINUED)								
							7-31	
							1509	14.900
							1510	18.800
							1511	19.200
							1512	18.800
							1513	33.300
							1514	49.400
							1515	61.100
							1516	72.600
							1517	83.700
							1518	90.000
							1519	84.500
							1520	81.000
							1521	74.300
							1522	62.500
							1523	54.700
							1524	50.700
							1525	47.000
							1526	44.000
							1527	40.000
							1528	36.300
							1531	30.000
							1533	26.800
							1537	21.100
							1539	17.500
							1542	12.300
							1545	9.370
							1548	6.300
							1551	4.400
							1554	2.760
							1559	1.400
							1604	0.690
							1609	0.350
							1614	0.170
							1620	0.080
							1627	0.030
							1635	0.010
							1641	0.0
							1649	0.0
							1702	0.0

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00403.



EVENT OF JULY 31, 1968
ALBUQUERQUE, NEW MEXICO WATERSHED W-I

ALBUQUERQUE, NEW MEXICO WATERSHED W-II

LOCATION: Bernalillo Co., N. M., 19 mi. NW of Albuquerque, Rio Puerco, Rio Grande Basin.

AREA: 40.10 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)															ALBUQUERQUE, NEW MEXICO WATERSHED W-II														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.0	0.0	0.0	0.0	0.41	0.02	2.38	1.64	0.03	0.44	0.0	0.0	4.91															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.474	0.107	0.0	0.001	0.0	0.0	0.583															
STA AV	P	0.24	0.26	0.33	0.37	0.49	0.72	1.18	1.57	0.96	0.70	0.27	0.40	7.49															
	O	0.0	0.0	0.0	0.0	0.010	0.077	0.112	0.284	0.135	0.058	0.0	0.0	0.677															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		7-31	1.323	7-31	0.336	7-31	0.464	7-31	0.473	8- 4	0.474	8- 3	0.474	8- 2	0.474	8- 2	0.474	8- 2	0.569										
MAXIMUMS FOR PERIOD OF RECORD																													
		8-24	2.930	8-24	0.750	8-24	0.770	8-24	0.770	8-24	0.770	8-24	0.770	8-24	0.770	8-11	1.240												
		1957		1957		1957		1957		1957		1957		1957		1967													

NOTES: Watershed conditions: Sparsely vegetated rangeland; about 80% of the area is bare. Vegetation consists of short grasses (blue and black grama, and galleta) and shrubs (sagebrush, saltbush, and rabbit brush). Vegetation is densest along lower two thirds of principal waterway. Precipitation and runoff records began July, 1939. Record period interrupted for short intervals. Precipitation monthly values are Thiessen weighted values from 2 rain gages. STA AV amounts were computed using values for the months with complete records. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, Misc. Pub. 945, p. 47-4. For long-time precipitation records, see U.S. Weather Bureau records at Albuquerque, N. Mex.

1968		DAILY PRECIPITATION (inches)						ALBUQUERQUE, NEW MEXICO WATERSHED W-II					
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.03E	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.44E	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32E	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.36E	0.0	0.0	0.22E	0.0	0.0	0.0	0.0
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	31	0.0		0.0		0.0		2.05	0.0		0.0		0.0
TOTAL		0.0	0.0	0.0	0.0	0.41	0.02	2.38	1.64	0.03	0.44	0.0	0.0
STA AV		0.24	0.26	0.33	0.37	0.49	0.72	1.18	1.57	0.96	0.70	0.27	0.40

NOTES: Daily amounts are Thiessen weighted amounts from 2 rain gages (R-3 and R-5). Precipitation records began July, 1939, and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 MEAN DAILY DISCHARGE (cfs) ALBUQUERQUE, NEW MEXICO WATERSHED W-II												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.160	0.0	0.002	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.021E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.799	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0258	0.0058	0.0	0.0001	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.478	0.107	0.0	0.001	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.010	0.077	0.112	0.284	0.135	0.058	0.0	0.0

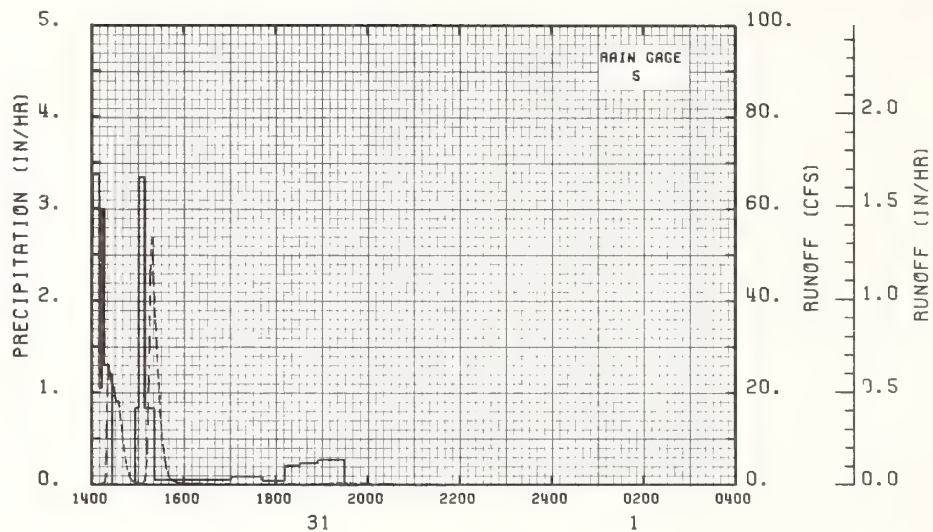
NOTES: To convert mean daily discharge amounts in CPS to IN/HR, multiply by 0.59356. Runoff records began July, 1939 and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 SELECTED RUNOFF EVENT ALBUQUERQUE, NEW MEXICO WATERSHED W-II											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 31, 1968											
7-31	RG 05 0.0	0.0	7-31	RG 05 1400	0.0	0.0	7-31	1413	0.0	0.0	
				1402	2.7000	0.09		1414	0.170	0.0	
				1410	3.3750	0.54		1417	0.470	0.0004	
				1414	1.0500	0.61		1418	0.580	0.0006	
				1417	3.0000	0.76		1419	6.140	0.0022	
WATERSHED CONDITIONS:				1423	1.3000	0.89		1420	12.300	0.0058	
Sparsely vegetated range-				1427	1.2000	0.97		1421	21.200	0.0123	
land; about 80% of the area				1457	0.0	0.97		1422	23.800	0.0210	
is bare. Vegetation consists				1502	0.8400	1.04		1423	25.000	0.0328	
of short grasses (blue and				1509	3.3429	1.43		1424	24.600	0.0424	
black grass, and galleta)											
and shrubs (sagebrush, salt-				1522	0.8308	1.61		1425	23.000	0.0516	
bush, and rabbit brush).				1702	0.0480	1.69		1426	22.200	0.0603	
Vegetation is densest				1743	0.0878	1.75		1429	21.200	0.0876	
along lower two thirds of				1812	0.0414	1.77		1432	18.300	0.1124	
principal waterway.				1832	0.2100	1.84		1433	18.000	0.1194	
				1855	0.2348	1.93		1435	18.000	0.1351	
				1930	0.2743	2.09		1436	17.700	0.1420	
								1438	15.100	0.1563	
								1440	12.000	0.1668	
								1441	10.200	0.1711	
								1443	7.660	0.1789	
								1445	5.180	0.1845	
								1447	3.370	0.1878	
								1449	2.010	0.1901	
								1450	1.590	0.1908	
								1452	0.980	0.1918	
								1453	0.770	0.1922	
								1455	0.510	0.1927	
								1457	0.370	0.1931	
								1459	0.260	0.1933	
								1502	0.190	0.1936	
								1505	0.130	0.1938	
								1507	0.130	0.1939	
								1508	0.310	0.1940	
								1509	0.720	0.1942	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.02473.

1968 SELECTED RUNOFF EVENT			ALBUQUERQUE, NEW MEXICO WATERSHED W-II							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 31, 1968 (CONTINUED)										
				7-31			1510		1.670	0.1947
							1511		1.830	0.1954
							1512		4.290	0.1969
							1513		8.020	0.1993
							1514		15.700	0.2039
							1515		22.200	0.2131
							1516		30.200	0.2232
							1517		45.600	0.2378
							1518		52.300	0.2567
							1519		53.500	0.2823
							1520		49.700	0.3022
							1521		44.400	0.3204
							1522		40.500	0.3368
							1523		37.200	0.3556
							1524		34.600	0.3695
							1525		30.600	0.3821
							1526		27.000	0.3932
							1527		23.800	0.4055
							1528		21.200	0.4142
							1529		18.300	0.4218
							1530		15.100	0.4299
							1531		12.800	0.4353
							1532		10.500	0.4398
							1534		7.660	0.4477
							1536		5.180	0.4527
							1538		3.640	0.4565
							1540		2.280	0.4588
							1541		1.670	0.4596
							1543		1.100	0.4608
							1546		0.720	0.4619
							1550		0.470	0.4629
							1553		0.310	0.4634
							1556		0.210	0.4637
							1606		0.120	0.4644
							1613		0.080	0.4647
							1619		0.060	0.4649
							1635		0.040	0.4652
							1655		0.020	0.4655
							1713		0.010	0.4656
							1742		0.010	0.4657
							1807		0.0	0.4658
							1817		0.0	0.4658
							1820		0.0	0.4658
							1822		0.010	0.4658
							1825		0.010	0.4658
							1847		0.010	0.4659
							1848		0.120	0.4659
							1850		0.120	0.4660
							1900		0.090	0.4664
							1904		0.100	0.4666
							1907		0.130	0.4667
							1909		0.210	0.4668
							1915		0.280	0.4674
							1923		0.400	0.4685
							1924		0.400	0.4687
							1933		0.310	0.4700
							1940		0.230	0.4708
							1957		0.170	0.4722
							2025		0.070	0.4736
							2130		0.0	0.4745

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02473.



EVENT OF JULY 31, 1968
ALBUQUERQUE, NEW MEXICO WATERSHED W-II

ALBUQUERQUE, NEW MEXICO WATERSHED W-III

LOCATION: Bernalillo Co., N. M.; 19 mi. NW of Albuquerque, Rio Puerco, Rio Grande Basin.

AREA: 176.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														ALBUQUERQUE, NEW MEXICO WATERSHED W-III															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.0	0.0	0.0	0.0	0.41	0.02	2.41	1.69	0.03	0.43	0.0	0.0	4.99															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.281	0.075	0.0	0.0	0.0	0.0	0.356															
STA AV	P	0.24	0.26	0.33	0.36	0.49	0.72	1.19	1.49	0.97	0.70	0.27	0.39	7.40															
	O	0.0	0.0	0.0	0.0	0.010	0.039	0.067	0.119	0.058	0.019	0.0	0.0	0.311															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		7-31	0.322	7-31	0.208	7-31	0.265	7-31	0.281	8- 4	0.281	8- 3	0.281	8- 2	0.281	8- 2	0.344												
MAXIMUMS FOR PERIOD OF RECORD																													
		8-15	1.050	8-15	0.440	9- 4	0.500	9- 4	0.510	9- 4	0.510	9- 4	0.510	9- 4	0.510	9- 4	0.770												
		1953		1953		1947		1947		1947		1947		1947		1947													

NOTES: Watershed conditions: Sparsely vegetated rangeland; about 75% of the area is bare. Vegetation consists of short grasses (blue and black grama and galleta), and shrubs (sagebrush and snakeweed). Vegetation is comparatively heavy in a narrow strip along the principal waterway. Precipitation and runoff records began July, 1939. Record period interrupted for short intervals. Precipitation monthly values are Thiessen weighted amount from 3 rain gages. STA AV amounts were computed using values for the months with complete records. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 47.3-4. For long-time precipitation records, see U.S. Weather Bureau records at Albuquerque, N. Mex.

1968		DAILY PRECIPITATION (inches)						ALBUQUERQUE, NEW MEXICO WATERSHED W-III						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.03E	0.0	0.0	0.0	
	3	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70E	0.0	0.43E	0.0	0.0	
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33E	0.0	0.0	0.0	0.0	
	11	0.0	0.0	0.0	0.0	0.36E	0.0	0.0	0.22E	0.0	0.0	0.0	0.0	
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	31	0.0	0.0	0.0	0.0	0.0	0.0	2.03	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.0	0.0	0.0	0.0	0.41	0.02	2.41	1.69	0.03	0.43	0.0	0.0	
STA AV		0.24	0.26	0.33	0.36	0.49	0.72	1.19	1.49	0.97	0.70	0.27	0.39	

NOTES: Daily amounts are Thiessen weighted amounts from 3 rain gages (R-3, R-5, and R-8). Precipitation records began July, 1939 and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968 MEAN DAILY DISCHARGE (cfs) ALBUQUERQUE, NEW MEXICO WATERSHED W-III												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.336	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.181	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	2.081	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0671	0.0179	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.281	0.075	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.010	0.039	0.067	0.119	0.058	0.019	0.0	0.0

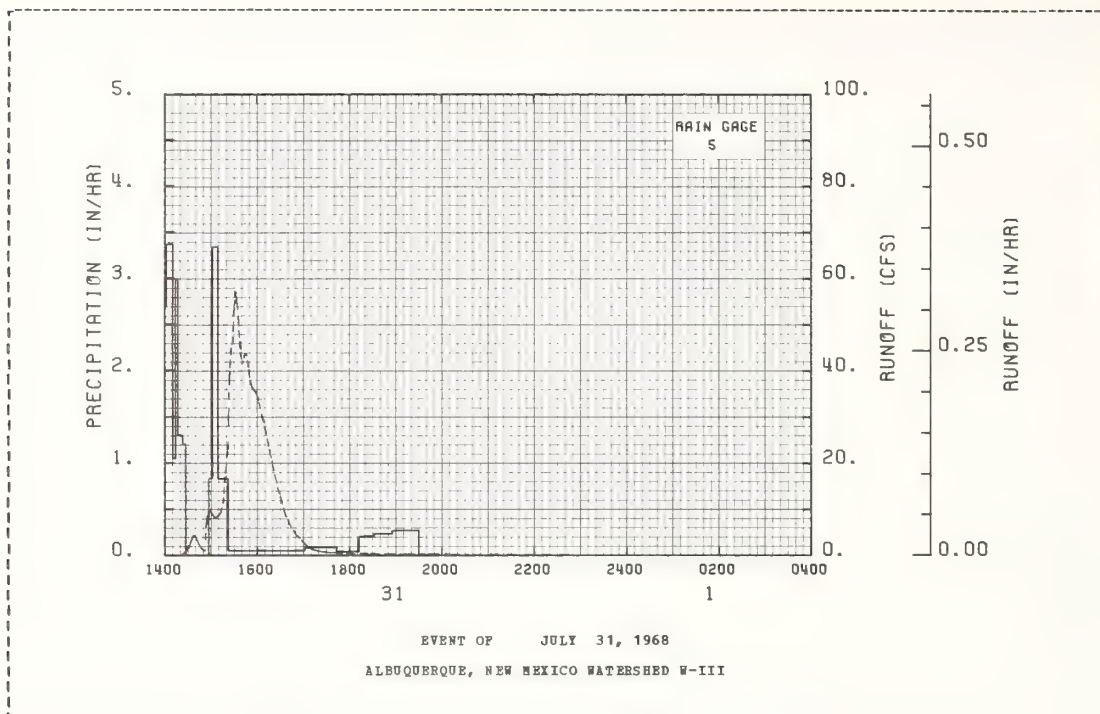
NOTES: To convert mean daily discharge amounts in CFS to IN/HR, multiply by 0.13524. Runoff records began July, 1939 and have been continuous except for short periods of interrupted records. STA AV amounts were computed using values for the months with complete records.

1968			ALBUQUERQUE, NEW MEXICO WATERSHED W-III									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 31, 1968												
RG 05			RG 05									
7-31	0.0	0.0	7-31	1400	0.0	0.0	7-31	1419	0.0	0.0		
				1402	2.7000	0.09		1420	0.150	0.0		
				1410	3.3750	0.54		1423	0.310	0.0001		
				1414	1.0500	0.61		1424	0.430	0.0001		
				1417	3.0000	0.76		1426	0.630	0.0002		
WATERSHED CONDITIONS:				1423	1.3000	0.89		1427	0.820	0.0003		
Sparsely vegetated range-				1427	1.2000	0.97		1428	1.170	0.0004		
land; about 75% of area is				1457	0.0	0.97		1429	1.510	0.0005		
bare. Vegetation consists				1502	0.8400	1.04		1431	1.830	0.0008		
of short grasses (blue and				1509	3.3429	1.43		1432	2.100	0.0010		
black grama and galleta)												
and shrubs (sagebrush,				1522	0.8308	1.61		1433	2.680	0.0012		
saltbush, and snakeweed).				1702	0.0480	1.69		1434	3.250	0.0015		
Vegetation is comparatively				1743	0.0878	1.75		1435	3.640	0.0018		
heavy in a narrow strip along				1812	0.0414	1.77		1436	4.020	0.0021		
the principal waterway.				1832	0.2100	1.84		1437	4.290	0.0025		
				1855	0.2348	1.93		1438	4.290	0.0030		
				1930	0.2743	2.09		1439	4.020	0.0034		
								1440	3.770	0.0037		
								1442	3.250	0.0044		
								1444	2.480	0.0049		
								1446	1.910	0.0053		
								1447	1.590	0.0055		
								1448	1.300	0.0056		
								1451	0.870	0.0059		
								1452	0.870	0.0060		
								1453	4.860	0.0063		
								1454	7.090	0.0068		
								1455	8.680	0.0075		
								1457	9.790	0.0093		
								1459	9.570	0.0110		
								1503	8.470	0.0144		
								1504	8.250	0.0153		
								1507	8.250	0.0175		
								1511	8.910	0.0207		
								1513	9.570	0.0225		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.

1968 SELECTED RUNOFF EVENT			ALBUQUERQUE, NEW MEXICO WATERSHED W-III							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 31, 1968 (CONTINUED)										
				7-31				1514	10.200	0.0234
								1516	12.000	0.0256
								1517	14.200	0.0268
								1518	16.700	0.0282
								1519	18.700	0.0301
								1520	20.100	0.0318
								1521	22.000	0.0337
								1522	23.500	0.0357
								1523	30.600	0.0387
								1524	38.600	0.0417
								1525	41.800	0.0452
								1526	44.300	0.0490
								1528	46.600	0.0580
								1529	49.600	0.0622
								1530	53.000	0.0678
								1531	54.900	0.0726
								1532	57.200	0.0775
								1533	55.600	0.0825
								1534	54.200	0.0885
								1536	50.400	0.0977
								1537	47.700	0.1020
								1538	45.400	0.1071
								1539	43.000	0.1110
								1541	41.400	0.1184
								1544	43.600	0.1306
								1546	43.600	0.1392
								1548	41.400	0.1467
								1550	39.300	0.1547
								1552	37.000	0.1614
								1554	36.100	0.1686
								1556	35.600	0.1749
								1559	35.100	0.1850
								1601	34.000	0.1918
								1603	32.500	0.1977
								1607	29.700	0.2093
								1611	26.900	0.2199
								1614	24.400	0.2272
								1617	22.000	0.2338
								1620	19.400	0.2397
								1624	16.400	0.2464
								1628	13.700	0.2520
								1631	12.000	0.2557
								1636	9.130	0.2606
								1642	6.710	0.2651
								1649	4.700	0.2689
								1654	3.770	0.2709
								1659	2.910	0.2724
								1703	2.190	0.2734
								1708	1.510	0.2743
								1711	1.300	0.2747
								1716	1.040	0.2753
								1719	0.820	0.2756
								1724	0.720	0.2760
								1729	0.630	0.2763
								1738	0.510	0.2768
								1744	0.430	0.2771
								1803	0.310	0.2778
								1820	0.260	0.2783
								1831	0.260	0.2786
								1854	0.210	0.2791
								1911	0.210	0.2794
								1920	0.230	0.2796
								1934	0.230	0.2799
								1947	0.210	0.2802
								2014	0.130	0.2806
								2040	0.080	0.2809
								2245	0.0	0.2814

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005635.



OXFORD, MISSISSIPPI WATERSHED W-4A

LOCATION: Marshall Co., Miss.; 4.8 mi. SE of Holly Springs, on State Highway No. 4; Chews Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1580.00 acres 2.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							OXFORD, MISSISSIPPI				WATERSHED W-4A						
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	6.44	1.85	6.10	5.04	5.90	2.88	1.07	2.38	8.84	6.07	7.55	4.84	58.94			
	O	1.494	0.156	1.458	0.647	0.540	0.080	0.0	0.064	0.848	0.942	2.080	0.733	9.042			
STA AV	P	3.77	4.73	4.90	4.54	4.06	2.94	3.98	3.37	5.00	2.44	4.33	5.07	49.14			
	O	0.647	0.902	0.919	0.558	0.302	0.098	0.220	0.198	0.364	0.124	0.512	0.657	5.502			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours Vol.	Date	12 Hours Vol.	Date	1 Day Vol.	Date	2 Days Vol.	Date	8 Days Vol.
1968		3-11	0.580	11-27	0.500	11-27	0.750	11-27	1.200	11-27	1.590	11-27	2.000	11-27	2.030	11-27	2.260
MAXIMUMS FOR PERIOD OF RECORD																	
		2-23	0.840	2-23	0.720	2-23	1.130	3- 4	1.560	3- 4	1.620	1-31	2.380	1-30	3.340	1-27	3.900
		1962		1962		1962		1964		1964		1957		1957		1957	

NOTES: Watershed conditions: About 13% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 39% in pasture and idle land, good cover April to October with fair cover remainder of year; 47% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1968. Reported as Watershed W-4 prior to 1965. Gaging station relocated upstream, Jan. 1965, reducing drainage area from 2,000 to 1,580 acres. About 29% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.1-4. Monthly precipitation Thiessen weighted from rain gages 7, 8 and 18. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs 2W, Mississippi.

1968 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-4A	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.09	0.96	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.69		
2	0.04	0.0	0.0	0.79	0.0	1.31	0.0	0.37	0.0	0.0	0.0	0.0		
3	1.16	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.24	0.35	0.40	0.15		
4	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	1.11	0.0	0.0		
6	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.0	0.0		
7	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.19	0.0	0.0	0.87	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	2.17	0.0	0.68	0.02	0.0	0.0	0.13	0.0	0.17	0.08	0.0	0.0		
10	0.76	0.0	0.30	0.0	0.05	0.0	0.03	0.21	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.78	0.0	0.89	0.0	0.02	0.0	0.0	0.0	0.11	0.0		
12	0.53	0.0	0.03	0.0	0.03	0.0	0.0	1.40	0.0	0.0	0.0	0.61		
13	0.0	0.0	0.0	0.58	0.21	0.0	0.0	0.27	0.0	0.56	0.0	0.05		
14	0.0	0.0	0.0	0.80	1.66	0.0	0.0	0.01	0.0	1.83	0.0	0.0		
15	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.07	1.27	0.0	0.77	0.0		
16	0.0	0.0	0.08	0.0	0.62	0.0	0.0	0.0	4.03	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0	2.25	0.36	0.09	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.05		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.05		
20	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	0.99	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48		
22	0.0	0.0	0.73	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86		
23	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0		
25	0.0	0.0	0.0	0.0	0.69	1.05	0.0	0.0	0.32	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.23	0.52	0.01	0.0	0.01	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	4.27	0.87		
28	0.0	0.60	0.0	0.0	0.20	0.0	0.00	0.0	0.0	0.0	0.80	0.0		
29	0.0	0.11	0.0	0.03	0.06	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
30	0.22	0.09	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.46	0.02		
31	0.24	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.44	1.85	6.10	5.04	5.90	2.88	1.07	2.38	8.84	6.07	7.55	4.84		
STA AV	3.77	4.73	4.90	4.54	4.06	2.94	3.98	3.37	5.00	2.44	4.33	5.07		

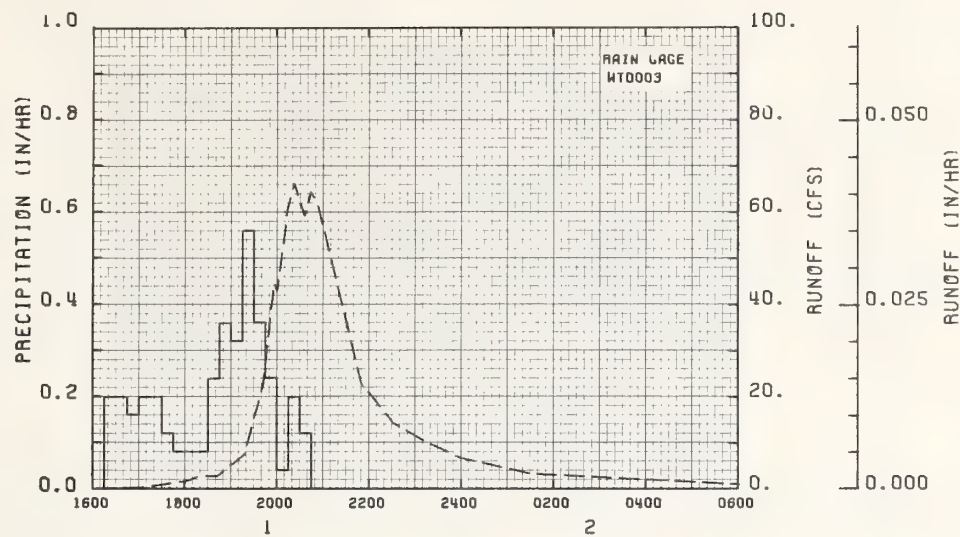
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 7, 8 and 18. STA AV for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-4A												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	6.176	0.0	0.290	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.301
2	0.0	1.049	0.0	1.805	0.0	4.655	0.0	0.0	0.0	0.0	0.0	0.688
3	7.898	0.471	0.0	0.815	0.0	0.064	0.0	0.0	0.0	0.0	0.0	0.380
4	1.263	0.380	0.0	9.747	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.211
5	0.426	0.380	0.0	0.598	0.0	0.0	0.0	0.0	0.0	0.488	0.0	0.211
6	7.605	0.380	0.0	0.380	0.0	0.0	0.0	0.0	0.0	23.941	0.0	0.290
7	0.962	0.380	0.0	0.380	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.145
8	0.791	0.380	0.0	5.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.034
9	37.379	0.380	0.203	0.688	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.127
10	32.559	0.235	0.796	0.301	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.235
11	2.239	0.0	72.808	0.066	0.887	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.702	0.0	5.285	0.0	0.053	0.0	0.0	3.975	0.0	0.0	0.0	0.315
13	1.759	0.0	0.483	1.430	0.0	0.0	0.0	0.278	0.0	0.936	0.0	0.740
14	0.906	0.0	0.380	13.778	10.022	0.0	0.0	0.0	0.0	37.188	0.0	0.0
15	0.598	0.0	0.380	1.183	0.483	0.0	0.0	0.0	0.287	0.0	0.232	0.0
16	0.290	0.0	0.290	0.574	4.108	0.0	0.0	0.0	29.286	0.0	0.021	0.0
17	0.290	0.0	0.290	0.471	17.194	0.0	0.0	0.0	22.268	0.0	0.0	0.0
18	0.290	0.0	0.290	0.380	0.483	0.0	0.0	0.0	4.463	0.0	0.0	0.0
19	0.380	0.0	0.211	0.380	0.211	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.301	0.0	0.211	0.380	0.211	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.132	0.0	1.279	0.290	0.290	0.0	0.0	0.0	0.0	0.0	0.0	6.166
22	0.132	0.0	4.160	1.050	0.290	0.0	0.0	0.0	0.0	0.0	0.0	18.198
23	0.132	0.0	0.483	0.677	0.290	0.0	0.0	0.0	0.0	0.0	0.0	0.598
24	0.132	0.0	4.371	0.404	0.211	0.0	0.0	0.0	0.0	0.0	0.753	0.145
25	0.132	0.0	1.554	0.132	0.806	0.340	0.0	0.0	0.0	0.0	0.0	0.0
26	0.132	0.0	0.918	0.301	0.338	0.238	0.0	0.0	0.0	0.0	0.0	0.066
27	0.211	0.0	0.483	0.471	0.0	0.0	0.0	0.0	0.0	0.0	96.782	4.166
28	0.211	0.142	0.483	0.380	0.0	0.0	0.0	0.0	0.0	0.0	38.417	1.515
29	0.066	0.015	0.574	0.150	0.0	0.0	0.0	0.0	0.0	0.0	0.918	0.380
30	0.0	0.0	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.951	0.471
31	0.235	0.0	0.380	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.301
MEAN	3.1990	0.3580	3.1220	1.4320	1.1570	0.1770	0.0	0.1370	1.8770	2.0180	4.6030	1.5700
INCHES	1.494	0.156	1.458	0.647	0.540	0.080	0.0	0.064	0.848	0.942	2.080	0.733
STA AV	0.647	0.902	0.919	0.558	0.302	0.098	0.220	0.198	0.364	0.124	0.512	0.657

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.01506. STA AV for 12 yr (1957-68) record period.
Quality of records: Good, estimated to be within 10% of actual.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-4A												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 9, 1968												
RG WTD003			RG WTD003									
2- 1	0.02	0.003	2- 1	1615	0.0	0.0	2- 1	1618	0.13	0.0		
				1630	0.1795	0.05		1702	0.29	0.0001		
				1645	0.1880	0.09		1800	1.73	0.0007		
				1700	0.1474	0.13		1818	2.77	0.0011		
				1715	0.1917	0.18		1842	2.77	0.0018		
WATERSHED CONDITIONS:				1730	0.2167	0.23		1918	7.69	0.0038		
About 13% of area in culti-				1745	0.1160	0.26		1942	22.70	0.0076		
vation, primarily corn and				1800	0.0832	0.28		1956	44.54	0.0125		
cotton, poor to fair cover				1815	0.0840	0.30		2000	42.76	0.0143		
provided by residue from				1830	0.0874	0.32		2014	60.80	0.0219		
1967 crop; 39% in pasture												
and idle land with fair to				1845	0.2320	0.38		2022	66.20	0.0272		
good cover; 47% in woods,				1900	0.3720	0.47		2036	59.00	0.0364		
good cover; 1% bare gullies.				1915	0.3160	0.55		2044	64.40	0.0416		
				1930	0.5640	0.69		2054	60.80	0.0482		
				1945	0.3440	0.78		2118	44.54	0.0614		
				2000	0.2520	0.84		2150	22.70	0.0727		
				2015	0.0559	0.86		2232	14.00	0.0808		
				2030	0.2000	0.91		2312	10.22	0.0859		
				2045	0.1129	0.94		2400	6.53	0.0901		
				2100	0.0156	0.94		2- 2	130	3.16	0.0947	
				2245	0.0	0.94						
								600	0.91	0.1004		
								1444	0.29	0.1037		
								2400	0.47	0.1059		
							2- 3	2400	0.47	0.1130		
							2- 4	2400	0.29	0.1187		
							2- 5	2400	0.47	0.1244		
							2- 6	2400	0.29	0.1301		
							2- 7	2400	0.47	0.1358		
							2- 8	2400	0.29	0.1415		
							2- 9	2400	0.47	0.1472		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 9, 1968
OXFORD, MISSISSIPPI WATERSHED W-4A

OXFORD, MISSISSIPPI WATERSHED W-5

LOCATION: Marshall Co., Miss.; 6.1 mi. SW of Holly Springs, on State Highway No. 4; Willie Wilkins Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1130.00 acres 1.76 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-5	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	6.49	1.86	6.47	5.16	5.83	2.80	1.30	1.99	9.95	5.46	7.68	5.13	60.13	
	O	2.968	0.413	2.742	1.133	1.265	0.061	0.0	0.001	2.049	1.667	3.133	2.303	17.735	
STA AV	P	3.86	4.72	5.07	4.59	4.21	2.97	3.95	3.75	4.89	2.37	4.37	5.15	49.90	
	O	1.375	1.739	1.906	1.158	0.747	0.280	0.357	0.413	0.565	0.249	0.866	1.521	11.176	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		3-11	0.900	3-11	0.780	3-11	1.230	3-11	1.760	11-27	2.240	11-27	3.020	11-27	3.640
MAXIMUMS FOR PERIOD OF RECORD															
		3-4	1.190	3-4	0.990	3-4	1.630	3-4	2.120	2-9	2.800	2-9	3.100	1-30	5.250
		1964		1964		1964		1964		1966		1966		1957	1957

NOTES: Watershed conditions: About 11% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 58% in pasture and idle land, good cover April to October with fair cover remainder of year; 30% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1967. About 21% of drainage area above small desilting and retention dams. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, ARS, SWC, January 1960, p. 62.2-3. Monthly precipitation Thiessen weighted from rain gages 8 and 33. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY AIR TEMPERATURE (degrees F)														OXFORD, MISSISSIPPI WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	37 19	66 52	35 18	65 48	80 53	86 68	94 69	93 72	87 57	83 56	78 59	52 44			
2	34 20	51 30	47 18	58 47	83 58	79 66	89 69	90 68	87 55	84 66	77 49	58 43			
3	42 31	54 26	60 26	74 58	80 60	86 63	83 60	94 68	80 64	71 52	68 57	52 38			
4	34 24	60 34	54 33	72 44	77 49	87 60	82 51	95 70	82 69	65 39	52 48	50 31			
5	36 23	59 30	62 32	51 35	78 43	86 63	86 50	93 72	80 68	66 39	56 50	50 28			
6	39 22	54 29	56 37	64 32	72 36	86 66	86 56	92 70	80 55	62 52	56 50	54 25			
7	21 10	42 28	64 27	68 47	77 48	88 60	89 60	90 69	80 51	63 48	50 46	42 25			
8	34 10	37 25	71 43	66 54	74 62	89 62	80 64	92 70	88 54	75 49	51 36	38 19			
9	36 32	50 21	59 55	66 54	76 63	92 64	86 64	94 72	78 64	77 50	50 33	46 19			
10	35 30	54 22	59 49	73 45	74 63	92 69	87 67	94 72	77 54	73 56	50 25	53 29			
11	37 28	31 19	53 47	77 43	72 66	94 70	82 66	88 72	78 48	74 61	40 36	59 29			
12	38 30	40 14	54 34	77 49	78 64	88 64	89 66	88 69	81 46	83 60	43 23	57 44			
13	30 17	36 22	45 28	65 58	72 64	86 58	91 66	83 72	82 46	81 66	54 22	54 31			
14	28 18	36 17	54 29	78 54	80 67	88 58	88 67	87 72	85 49	74 63	70 43	31 19			
15	36 25	39 28	63 43	67 44	80 65	91 64	93 70	91 72	77 55	82 64	68 57	32 17			
16	42 17	44 22	69 46	76 42	82 63	93 66	95 67	91 72	74 65	76 60	62 53	42 14			
17	50 22	42 30	71 39	74 62	72 60	84 66	94 70	94 74	81 63	74 60	67 46	47 32			
18	58 30	44 27	73 50	83 65	74 53	89 64	94 68	94 72	78 56	69 50	48 36	63 43			
19	61 28	51 20	70 52	83 63	66 50	90 67	88 70	96 72	80 54	70 37	45 26	52 40			
20	67 32	53 33	75 49	79 61	68 45	88 65	90 69	90 71	84 53	77 39	45 23	50 29			
21	69 33	33 17	49 33	75 50	71 52	90 65	90 72	94 71	87 62	78 40	61 24	46 38			
22	58 38	31 15	34 18	69 59	78 56	88 69	87 70	96 72	87 65	75 49	69 35	53 31			
23	49 29	40 21	35 18	73 49	82 62	86 69	86 68	95 72	86 60	68 38	71 49	36 27			
24	36 24	45 16	48 17	64 41	86 67	90 70	88 69	95 68	85 59	64 46	60 36	38 24			
25	46 26	44 33	62 30	77 40	87 64	84 72	91 72	93 68	79 57	55 33	63 29	44 19			
26	59 30	42 33	71 42	76 56	78 64	78 55	92 73	88 56	76 52	69 33	64 40	53 40			
27	59 43	50 36	71 45	76 56	72 54	78 55	94 75	82 59	80 50	73 46	65 56	63 50			
28	64 47	38 30	75 51	78 58	75 55	86 57	89 76	85 47	82 50	44 32	65 44	50 32			
29	66 50	39 27	79 53	72 52	80 58	90 66	84 72	85 56	83 53	62 28	53 36	49 24			
30	59 52		78 55	79 55	78 50	92 71	86 70	87 60	85 52	76 38	53 37	55 36			
31	63 52		64 54		84 58		88 73	86 56		80 58		41 17			
AV.	46 28	45 26	60 37	71 50	77 57	87 64	88 67	90 68	81 56	71 48	58 40	48 30			
MEAN	37.4	35.6	48.9	61.3	67.1	76.0	77.8	79.4	69.0	60.2	49.3	39.5			
STA AV	47 28	52 31	60 38	72 50	80 58	86 64	89 68	89 67	82 60	73 48	62 38	50 30			

NOTES: Temperature data from U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi. STA AV is for 12 yr (1957-68) record period.

1968	DAILY PRECIPITATION (inches)					OXFORD, MISSISSIPPI					WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.06	0.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67
2	0.04	0.0	0.0	0.71	0.0	1.20	0.01	0.40	0.0	0.0	0.0	0.0
3	1.18	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.30	0.40	0.43	0.20
4	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0
5	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	1.12	0.0	0.0
6	0.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.74	0.0	0.0
7	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.21	0.0	0.0	0.81	0.08	0.0	0.02	0.0	0.0	0.0	0.0	0.0
9	2.06	0.0	0.71	0.01	0.0	0.0	0.10	0.02	0.24	0.0	0.0	0.0
10	0.85	0.0	0.32	0.0	0.05	0.0	0.16	0.05	0.0	0.0	0.0	0.0
11	0.0	0.0	2.58	0.0	0.83	0.01	0.02	0.0	0.0	0.0	0.10	0.0
12	0.56	0.0	0.04	0.0	0.01	0.0	0.0	0.90	0.0	0.0	0.0	0.62
13	0.0	0.0	0.0	0.60	0.19	0.0	0.0	0.54	0.0	0.51	0.0	0.04
14	0.0	0.0	0.0	0.92	1.72	0.0	0.0	0.0	0.0	1.33	0.0	0.0
15	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.08	1.31	0.0	0.82	0.0
16	0.0	0.0	0.10	0.0	0.74	0.0	0.0	0.0	0.45	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.0	2.62	0.36	0.10	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.05
19	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.06
20	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.03	1.06	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.51
22	0.0	0.0	0.95	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93
23	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.0
25	0.0	0.0	0.0	0.0	0.36	1.11	0.0	0.0	0.30	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.31	0.49	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	4.26	0.99
28	0.0	0.60	0.0	0.0	0.20	0.0	0.04	0.0	0.0	0.0	0.77	0.0
29	0.0	0.11	0.0	0.03	0.09	0.0	0.16	0.0	0.0	0.0	0.0	0.0
30	0.24	0.0	0.22	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.48	0.06
31	0.22	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	6.49	1.86	6.47	5.16	5.83	2.80	1.30	1.99	9.95	5.46	7.68	5.13
STA AV	3.86	4.72	5.07	4.59	4.21	2.97	3.95	3.75	4.89	2.37	4.37	5.15

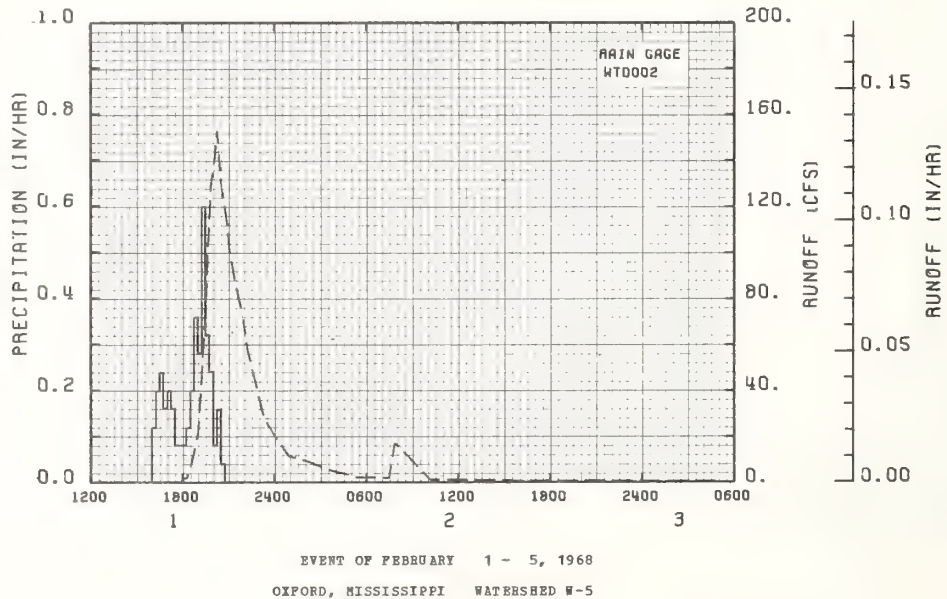
NOTES: Daily precipitation Thiessen weighted from rain gages 8 and 33. STA AV is for 12 yr (1957-68) record period.

1968	MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI					WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	15.917	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.815
2	0.0	3.327	0.0	5.883	0.0	2.836	0.0	0.0	0.0	0.0	0.0	1.059
3	22.215	0.211	0.0	0.274	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1.198	0.108	0.0	14.284	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.306	0.047	0.0	0.052	0.0	0.0	0.0	0.0	0.0	1.320	0.0	0.0
6	16.980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.038	0.0	0.0
7	2.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.321	0.0	0.0
8	1.200	0.0	0.0	11.225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	51.960	0.0	0.137	0.814	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	40.866	0.0	1.047	0.212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050
11	1.525	0.0	91.608	0.122	0.232	0.0	0.0	0.0	0.0	0.0	0.0	0.100
12	0.666	0.0	16.176	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.425
13	0.531	0.0	0.831	2.537	0.0	0.0	0.0	0.033	0.0	0.668	0.0	1.373
14	0.434	0.0	0.0	17.561	16.505	0.0	0.0	0.0	0.0	33.524	0.0	0.0
15	0.228	0.0	0.0	0.511	0.741	0.0	0.0	0.0	0.0	0.938	0.031	0.0
16	0.182	0.0	0.0	0.0	10.997	0.0	0.0	0.0	38.086	0.0	0.0	0.0
17	0.343	0.0	0.0	0.0	31.428	0.0	0.0	0.0	52.899	0.322	0.0	0.0
18	0.177	0.0	0.0	0.0	0.033	0.0	0.0	0.0	6.288	0.0	0.0	0.0
19	0.078	0.0	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	5.392	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.344
22	0.0	0.0	5.345	0.230	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.927
23	0.0	0.0	0.733	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.086
24	0.0	0.0	7.848	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.572	0.418
25	0.0	0.0	0.921	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.122	0.0	0.108	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.101	0.0	0.0	0.0	0.0	0.0	0.0	96.407	12.558
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.936	6.335
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.071	1.465
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.745	0.274
31	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.155
MEAN	4.5460	0.6760	4.1990	1.7940	1.9380	0.0960	0.0	0.0010	3.2420	2.5530	4.9590	3.5270
INCHES	2.968	0.413	2.742	1.133	1.265	0.061	0.0	0.001	2.049	1.667	3.133	2.303
STA AV	1.375	1.739	1.906	1.158	0.747	0.280	0.357	0.413	0.565	0.249	0.866	1.521

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.02106. Quality of records: Good, estimated to be within 10% of actual. STA AV is for 12 yr (1957-68) record period.

1968			SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-5		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF FEBRUARY 1 - 5, 1968											
RG WTD002			RG WTD002								
2- 1	0.0	0.0	2- 1	1600	0.0	0.0	2- 1	1614	0.0	0.0	
				1615	0.1080	0.03		1716	0.07	0.0	
				1630	0.1920	0.07		1742	0.12	0.0	
				1645	0.2482	0.14		1756	0.24	0.0	
				1700	0.1400	0.17		1804	2.02	0.0001	
WATERSHED CONDITIONS: About 11% of area in cultivation, primarily cotton and corn, poor to fair cover provided by residue from 1967 crop; 58% in pasture and idle land with fair to good cover; 30% in woods, good cover; 1% in bare gullies.				1715	0.2198	0.23		1818	2.42	0.0006	
				1730	0.1568	0.27		1838	9.52	0.0023	
				1745	0.0760	0.28		1902	22.00	0.0078	
				1800	0.0770	0.30		1928	70.00	0.0253	
				1815	0.0877	0.33		1952	128.86	0.0602	
				1830	0.1197	0.36		2000	135.00	0.0757	
				1845	0.1877	0.40		2010	144.00	0.0961	
				1900	0.3560	0.49		2016	153.00	0.1091	
				1915	0.2800	0.56		2032	130.40	0.1423	
				1930	0.6120	0.71		2056	111.50	0.1848	
				1945	0.3151	0.79		2106	99.60	0.2002	
				2000	0.2400	0.85		2126	87.45	0.2276	
				2015	0.0762	0.87		2150	75.97	0.2563	
				2030	0.1649	0.91		2216	57.00	0.2816	
				2045	0.0520	0.93		2236	47.86	0.2969	
	2100	0.0080	0.93		2320	27.58	0.3212				
	2115	0.0080	0.93		2400	20.13	0.3352				
	2245	0.0	0.93	2- 2	58	11.07	0.3484				
					206	9.07	0.3584				
					338	5.10	0.3679				
						522	2.02	0.3733			
						728	1.83	0.3769			
						750	17.18	0.3800			
						1008	1.07	0.3984			
						1314	0.84	0.4010			
						1636	0.43	0.4029			
						2040	0.36	0.4043			
						2400	0.30	0.4053			
						2400	0.12	0.4097			
						2- 4	2400	0.09	0.4120		
						2- 5	2400	0.0	0.4130		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000878. Thiessen weighted storm rainfall, rain gages 8 and 33. For 30-day antecedent P and Q, see tables on previous page.



OXFORD, MISSISSIPPI WATERSHED W-10

LOCATION: Marshall Co., Miss.; 3.3 mi. NW of Chulahoma, on County road; Dry Fork Creek, Pigeon Roost Creek Watershed Yazoo River Basin.

AREA: 5530.00 acres 8.64 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-10	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	6.97	2.16	7.04	4.54	5.85	2.83	2.30	1.80	10.19	5.30	8.00	5.85	62.82	
	O	2.756	0.395	2.566	0.511	1.223	0.109	0.0	0.013	1.338	0.572	1.943	1.320	12.746	
STA AV	P	3.96	4.93	5.09	4.66	4.69	3.04	4.25	3.60	4.96	2.38	4.51	5.35	51.41	
	O	1.178	1.281	1.597	0.992	0.793	0.192	0.455	0.392	0.558	0.161	0.704	1.284	9.586	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge				Maximum Volume for Selected Time Interval									
		Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days					
		Date	Rate	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.	Date Vol.
1968		1-10	0.180	1-10	0.180	1-10	0.330	1-10	0.670	1-10	1.110	1- 9	2.080	1- 9	2.270
MAXIMUMS FOR PERIOD OF RECORD															
		7- 9	1.180	7- 9	1.060	7- 9	1.650	2-23	2.130	2-23	2.390	12- 3	2.660	1-30	2.980
		1967		1967		1967		1962		1962		1964		1957	

NOTES: Watershed conditions: About 23% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 35% in pasture and idle land, good cover April to October with fair cover remainder of year; 40% in woods, good cover; 2% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1967. About 19% of drainage area above small desilting and retention dams. Monthly precipitation Thiessen weighted from rain gages 13, 14, 20, 24 and 26. Stream gauging station inoperative Mar. 4 to Dec. 2, 1968, runoff estimated for this period. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.3-3. Precipitation and runoff records began Jan. 1957. STA AV P is for 11 yr (1957-67) record period. STA AV Q is for 10 yr (Jan. 1957 thru Sept. 1965 and Oct. 1966 thru Dec. 1967) record period. Maximum discharge and volumes were not determined for period when station was inoperative, Mar. 4 to Dec. 2, 1968. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.08	1.19	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.77			
2	0.03	0.0	0.0	0.70	0.0	1.23	0.04	0.21	0.0	0.0	0.0	0.0			
3	1.24	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.51	0.49	0.46	0.19			
4	0.0	0.0	0.0	0.63	0.0	0.01	0.0	0.0	0.45	0.0	0.0	0.0			
5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.12	0.0	0.0			
6	0.69	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	1.76	0.0	0.0			
7	0.0	0.0	0.0	0.01	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0			
8	0.19	0.0	0.0	0.91	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	2.23	0.0	0.93	0.03	0.01	0.0	0.15	0.0	0.27	0.02	0.0	0.0			
10	1.06	0.0	0.35	0.0	0.08	0.0	0.50	0.13	0.0	0.0	0.0	0.0			
11	0.0	0.0	2.79	0.0	0.86	0.07	0.08	0.0	0.0	0.0	0.14	0.0			
12	0.60	0.0	0.05	0.0	0.04	0.0	0.0	0.99	0.0	0.0	0.0	0.81			
13	0.0	0.0	0.0	0.66	0.12	0.0	0.36	0.28	0.0	0.30	0.0	0.00			
14	0.0	0.0	0.0	0.37	1.91	0.0	0.0	0.01	0.0	1.17	0.0	0.0			
15	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.04	1.34	0.0	0.81	0.0			
16	0.0	0.0	0.10	0.0	0.67	0.0	0.03	0.0	4.25	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.0	2.99	0.44	0.08	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.03	0.0	0.0	0.05			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.04			
20	0.0	0.0	0.25	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.03	1.09	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.62			
22	0.0	0.0	1.14	0.56	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.18			
23	0.11	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0			
25	0.0	0.0	0.0	0.0	0.47	0.80	0.0	0.0	0.20	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.25	0.72	0.0	0.0	0.01	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	4.50	1.13			
28	0.0	0.65	0.0	0.0	0.20	0.0	0.06	0.0	0.0	0.0	0.78	0.01			
29	0.0	0.12	0.0	0.05	0.05	0.0	0.46	0.0	0.0	0.0	0.0	0.0			
30	0.27		0.05	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.55	0.05			
31	0.24		0.28		0.0		0.0	0.0		0.0		0.0			
TOTAL	6.97	2.16	7.04	4.54	5.85	2.83	2.30	1.80	10.19	5.30	8.00	5.85			
STA AV	3.96	4.93	5.09	4.66	4.69	3.04	4.25	3.60	4.96	2.38	4.51	5.35			

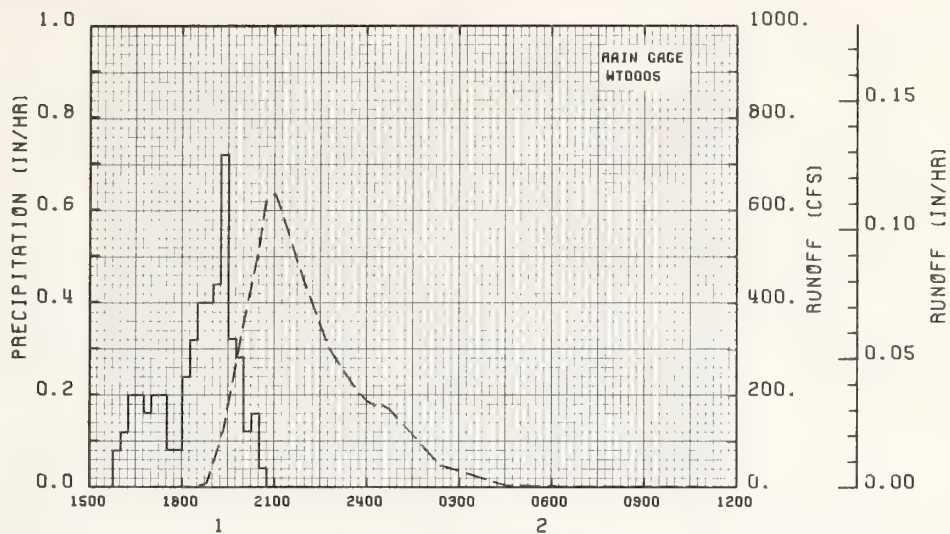
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 13, 14, 20, 24 and 26. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	76.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.99
2	0.0	15.34	0.0	0.0	0.0	20.90	0.0	0.0	0.0	0.0	0.0	0.0
3	55.32	0.03	0.0	5.00	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0
4	0.68	0.0	0.0	29.60	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
5	0.00	0.0	0.0	2.00	0.0	0.10	0.0	0.0	0.0	0.20	0.0	0.0
6	55.52	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	93.34	0.0	0.0
7	0.03	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0
8	0.03	0.0	0.0	36.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	246.77	0.0	2.30	4.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	281.47	0.0	15.30	1.40	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.39	0.0	379.80	0.20	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	65.70	0.10	0.20	0.0	0.0	2.90	0.0	0.0	0.0	0.12
13	0.0	0.0	2.40	15.80	0.10	0.0	0.0	0.10	0.0	0.03	0.0	0.42
14	0.0	0.0	0.20	5.20	108.90	0.0	0.0	0.0	0.0	36.15	0.0	0.05
15	0.0	0.0	0.20	2.80	3.60	0.0	0.0	0.0	0.20	0.68	0.06	0.0
16	0.0	0.0	0.10	0.20	44.60	0.0	0.0	0.0	196.20	0.0	0.06	0.0
17	0.0	0.0	0.10	0.10	115.80	0.0	0.0	0.0	79.60	2.28	0.0	0.0
18	0.02	0.0	0.10	0.10	2.00	0.0	0.0	0.0	34.70	0.15	0.0	0.0
19	0.05	0.0	0.10	0.0	0.20	0.0	0.0	0.0	0.10	0.0	0.0	0.0
20	0.0	0.0	0.10	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	9.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.03
22	0.0	0.0	31.80	2.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.80
23	0.0	0.0	13.60	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.88
24	0.0	0.0	38.80	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.10
25	0.0	0.0	27.60	0.10	1.00	1.30	0.0	0.0	0.0	0.0	0.03	0.0
26	0.0	0.0	7.10	0.10	3.20	2.50	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.60	2.60	0.20	0.20	0.0	0.0	0.0	0.0	313.87	53.26
28	0.0	0.0	0.20	0.20	0.10	0.0	0.0	0.0	0.0	0.0	135.82	23.13
29	0.0	0.0	0.10	0.10	0.10	0.0	0.0	0.0	0.0	0.0	0.93	2.39
30	0.0	0.0	0.10	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.78
31	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74
MEAN	0.6550	3.1650	9.2320	3.9600	9.1650	0.8430	0.0	0.0970	0.3600	4.2890	5.0450	9.8930
INCHES	2.756	0.395	2.566	0.511	1.223	0.109	0.0	0.013	1.338	0.572	1.983	1.320
STA AV	1.178	1.281	1.597	0.992	0.793	0.192	0.455	0.392	0.558	0.161	0.704	1.284

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0043041. Quality of records: Poor, estimated to be within 20% of actual. Gauging station inoperative Mar. 4 to Dec. 1968 - daily discharge estimated for this period. STA AV is for 11 yr (Jan. 1957 thru Sept. 1965 and Oct. 1966 thru Dec. 1968) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-10											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 1 - 2, 1968											
RG WTD005			RG WTD005								
2- 1	0.0	0.0	2- 1	1545	0.0	0.0	2- 1	1706	0.0	0.0	
				1600	0.0751	0.02		1720	0.06	0.0	
				1615	0.1272	0.05		1744	0.12	0.0	
				1630	0.2086	0.10		1804	0.40	0.0	
				1645	0.2000	0.15		1826	2.06	0.0001	
WATERSHED CONDITIONS:				1700	0.1430	0.19		1848	9.83	0.0005	
About 23% of area in cultivation, primarily cotton, corn, and soybeans, poor to fair cover provided by residue from 1967 crop; 35% in pasture and idle land, fair cover; 40% in woods, good cover; 2% in bare gullies.				1715	0.1920	0.24		1920	125.00	0.0069	
				1730	0.1960	0.29		1942	250.92	0.0193	
				1745	0.1000	0.31		2000	358.00	0.0357	
				1800	0.1000	0.34		2022	477.84	0.0632	
				1815	0.2272	0.39		2030	524.26	0.0752	
				1830	0.3360	0.48		2042	620.00	0.0957	
				1845	0.3833	0.57		2100	635.00	0.1295	
				1900	0.3840	0.67		2114	595.00	0.1552	
				1915	0.4240	0.77		2136	514.59	0.1917	
				1930	0.7197	0.95		2158	442.00	0.2232	
				1945	0.3240	1.04		2218	382.00	0.2478	
				2000	0.2877	1.11		2246	298.97	0.2763	
				2015	0.1120	1.14		2316	247.98	0.3008	
				2030	0.1760	1.18		2342	206.00	0.3184	
				2045	0.0276	1.19		2400	185.00	0.3289	
				2100	0.0160	1.19	2- 2	18	173.00	0.3385	
				2115	0.0008	1.19		30	176.00	0.3448	
				2245	0.0	1.19		44	167.00	0.3520	
				2300	0.0126	1.19		222	47.17	0.3834	
								430	3.32	0.3931	
								614	1.32	0.3936	
								1202	0.32	0.3947	
								1806	0.12	0.3949	
								2400	0.10	0.3950	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0001793. Thiessen weighted storm rainfall, rain gages 13, 14, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 2, 1968
OXFORD, MISSISSIPPI WATERSHED W-10

OXFORD, MISSISSIPPI WATERSHED W-12

LOCATION: Marshall Co., Miss.; 5.6 mi. SW of Holly Springs, on county road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 22800.00 acres 35.60 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-12											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	6.52	1.99	6.46	4.90	6.07	2.35	1.51	1.96	9.77	4.99	7.49	5.21	59.23											
	O	1.811	0.261	1.837	0.530	0.792	0.106	0.029	0.028	1.220	0.665	1.982	1.240	10.501											
STA AV	P	3.82	4.72	4.95	4.53	4.32	3.04	4.05	3.59	4.74	2.31	4.36	5.06	49.49											
	O	0.774	1.021	1.207	0.612	0.533	0.174	0.250	0.231	0.322	0.110	0.449	0.772	6.458											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge				Maximum Volume for Selected Time Interval																			
		Date	Rate	1 Hour	2 Hours	6 Hours	12 Hours	1 Day	2 Days	8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		3-11	0.280	3-11	0.270	3-11	0.520	11-27	1.090	11-27	1.500	11-27	1.930	11-27	1.950	11-27	2.230								
MAXIMUMS FOR PERIOD OF RECORD																									
		2-23	0.350	2-23	0.350	2-23	0.680	2-23	1.380	2-23	1.620	11-27	1.930	1-30	2.280	3-24	4.360								
		1962		1962		1962		1962		1962		1968		1957		1965									

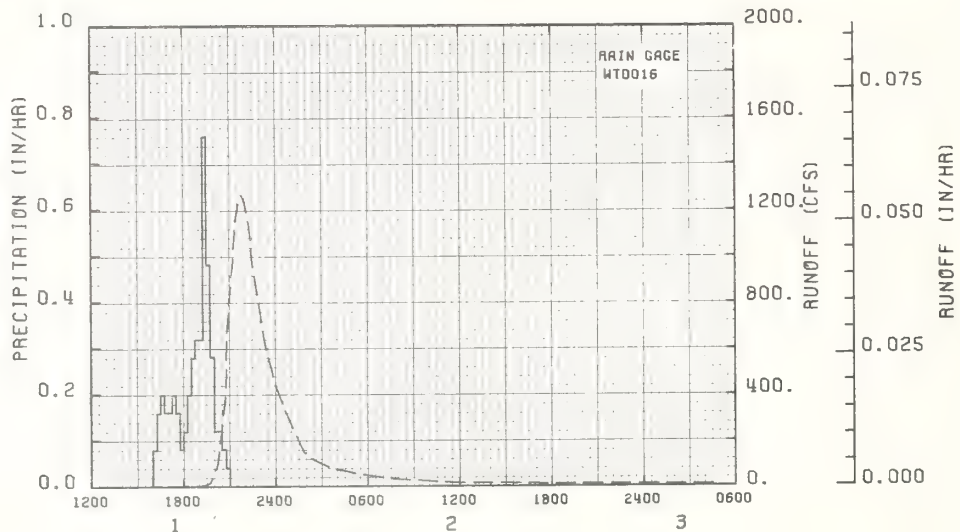
NOTES: Watershed conditions: About 17% in cultivation (cotton, corn, and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 47% in woods, good cover; 1% in bare gullies; 7% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1970. About 18% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.4-6. Monthly precipitation Thiessen weighted from 16 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.07	1.10	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.70		
2	0.03	0.0	0.0	0.73	0.0	1.03	0.01	0.20	0.0	0.0	0.0	0.0		
3	1.14	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.33	0.31	0.39	0.19		
4	0.0	0.0	0.0	0.73	0.0	0.03	0.0	0.0	0.39	0.0	0.0	0.0		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.14	1.12	0.0	0.0		
6	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	1.61	0.0	0.0		
7	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
8	0.18	0.0	0.0	0.97	0.19	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
9	2.12	0.0	0.75	0.02	0.01	0.0	0.08	0.00	0.20	0.02	0.0	0.0		
10	0.86	0.0	0.32	0.0	0.08	0.0	0.33	0.13	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.66	0.0	1.10	0.01	0.03	0.0	0.0	0.0	0.11	0.0		
12	0.59	0.0	0.04	0.0	0.04	0.0	0.0	0.99	0.0	0.0	0.0	0.65		
13	0.0	0.0	0.0	0.53	0.19	0.0	0.02	0.45	0.0	0.32	0.0	0.04		
14	0.0	0.0	0.0	0.66	1.75	0.0	0.0	0.05	0.0	1.24	0.0	0.0		
15	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	1.29	0.0	0.76	0.0		
16	0.0	0.0	0.07	0.0	0.63	0.0	0.02	0.01	4.24	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.01	0.01	0.0	0.0	2.71	0.38	0.09	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.00	0.08	0.0	0.0	0.04		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.06		
20	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	1.08	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40		
22	0.0	0.0	0.95	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00		
23	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.65	0.0		
25	0.0	0.0	0.0	0.0	0.57	0.62	0.0	0.0	0.36	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.23	0.65	0.01	0.0	0.02	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.0	4.25	1.07		
28	0.0	0.59	0.0	0.0	0.19	0.0	0.01	0.0	0.0	0.0	0.78	0.0		
29	0.0	0.11	0.01	0.03	0.09	0.0	0.09	0.0	0.0	0.0	0.0	0.0		
30	0.26	0.07	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.46	0.04		
31	0.22	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.52	1.99	6.46	4.90	6.07	2.35	1.51	1.96	9.77	4.99	7.49	5.21		
STA AV	3.82	4.72	4.95	4.53	4.32	3.04	4.05	3.59	4.74	2.31	4.36	5.06		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 4 thru 9, 13, 15, 18 thru 20, 25, 29 thru 31 and 33. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-12			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF FEBRUARY 1 - 8, 1968 (CONTINUED)										
							2- 2	1348	12.75	0.1771
								1828	7.42	0.1791
								2400	7.05	0.1808
							2- 3	2400	5.04	0.1871
							2- 4	2400	4.46	0.1921
							2- 5	2400	3.43	0.1962
							2- 6	2400	3.43	0.1998
							2- 7	2400	3.20	0.2033
							2- 8	2400	2.56	0.2063

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000435. Thiessen weighted storm rainfall, rain gages 4 thru 9, 13, 15, 18 thru 20, 25, 29 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 8, 1968
OXFORD, MISSISSIPPI WATERSHED W-12

OXFORD, MISSISSIPPI WATERSHED W-17

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Holy Springs on County road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 32100.00 acres 50.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-17													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	6.61	2.08	6.56	4.86	5.96	2.17	1.67	2.11	9.78	4.69	7.57	5.24	59.29													
	O	2.614	0.581	2.252	0.967	1.161	0.278	0.262	0.242	1.575	0.857	2.330	1.575	14.694													
STA AV	P	3.87	4.77	4.95	4.59	4.34	3.06	4.12	3.77	4.61	2.30	4.34	5.14	49.84													
	Q	1.089	1.332	1.581	0.924	0.858	0.344	0.471	0.497	0.516	0.301	0.717	1.094	9.722													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.										
1968		3-11	0.200	3-11	0.200	3-11	0.390	11-27	1.030	11-27	1.470	11-27	2.000	11-27	2.080	11-27	2.490										
MAXIMUMS FOR PERIOD OF RECORD																											
		2-23	0.210	2-23	0.210	2-23	0.410	2-23	1.120	2-23	1.500	12-3	2.010	3-24	2.390	3-24	4.680										
		1962		1962		1962		1962		1962		1964		1965		1965											

NOTES: Watershed conditions: About 19% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 38% in pasture and idle land, good cover April to October with fair cover remainder of year; 38% in woods, good cover; 2% in bare gullies; 3% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1965. About 22% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from 21 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs 2N, Mississippi.

1968		DAILY PRECIPITATION (inches)						OXFORD, MISSISSIPPI WATERSHED W-17					
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.07	1.18	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.71
	2	0.03	0.0	0.0	0.72	0.0	0.92	0.01	0.24	0.0	0.0	0.0	0.0
	3	1.15	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.36	0.29	0.38	0.21
	4	0.0	0.0	0.0	0.71	0.0	0.03	0.0	0.0	0.41	0.0	0.0	0.0
	5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.16	1.17	0.0	0.0
	6	0.65	0.0	0.0	0.0	0.0	0.0	0.00	0.02	0.0	1.56	0.0	0.0
	7	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
	8	0.18	0.0	0.0	1.02	0.17	0.0	0.01	0.0	0.0	0.0	0.0	0.0
	9	2.12	0.0	0.76	0.03	0.01	0.0	0.07	0.00	0.21	0.02	0.0	0.0
	10	0.95	0.0	0.32	0.0	0.08	0.0	0.36	0.19	0.0	0.0	0.0	0.0
	11	0.0	0.0	2.61	0.0	1.11	0.01	0.02	0.0	0.0	0.0	0.11	0.0
	12	0.61	0.0	0.04	0.0	0.06	0.0	0.0	1.00	0.0	0.0	0.0	0.70
	13	0.0	0.0	0.0	0.54	0.16	0.0	0.03	0.43	0.0	0.24	0.0	0.03
	14	0.0	0.0	0.0	0.61	1.77	0.0	0.0	0.06	0.0	1.04	0.0	0.0
	15	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.10	1.25	0.0	0.75	0.0
	16	0.0	0.0	0.07	0.0	0.63	0.0	0.02	0.01	4.12	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.96	0.01	0.0	0.02	2.76	0.38	0.09	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.00	0.06	0.0	0.0	0.04
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0	0.05
	20	0.0	0.0	0.28	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
	21	0.0	0.03	1.09	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	1.39
	22	0.0	0.0	1.00	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04
	23	0.14	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.65	0.0
	25	0.0	0.0	0.0	0.0	0.52	0.52	0.0	0.0	0.43	0.0	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.20	0.68	0.00	0.0	0.02	0.0	0.0	0.0
	27	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	4.33	1.02
	28	0.0	0.58	0.0	0.0	0.20	0.0	0.01	0.0	0.0	0.0	0.79	0.00
	29	0.0	0.11	0.01	0.04	0.09	0.0	0.08	0.0	0.0	0.0	0.0	0.0
	30	0.26		0.06	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.48	0.04
	31	0.21		0.33		0.0		0.0	0.0		0.0		0.0
TOTAL		6.61	2.08	6.56	4.86	5.96	2.17	1.67	2.11	9.78	4.69	7.57	5.24
STA AV		3.87	4.77	4.95	4.59	4.34	3.06	4.12	3.77	4.61	2.30	4.34	5.14

NOTES: For daily air temperatures in the vicinity, see table for Watershed 5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs)												OXFORD, MISSISSIPPI WATERSHED W-17	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	15.1	327.0	10.7	24.9	12.4	12.9	10.5	11.3	9.5	7.0	10.9	425.1	
2	13.1	154.5	10.1	85.5	12.7	60.7	10.1	15.8	9.5	7.3	10.7	33.9	
3	271.6	16.9	9.9	61.6	12.7	16.1	10.5	13.7	10.3	7.7	10.9	20.0	
4	70.8	12.5	9.5	213.6	12.4	10.1	11.1	10.7	11.6	7.5	11.1	17.1	
5	26.0	11.6	9.1	29.6	12.7	10.3	11.3	9.7	11.6	11.9	10.5	12.4	
6	239.8	10.9	9.1	15.1	12.9	10.3	11.3	9.3	10.7	570.1	9.9	12.4	
7	39.0	10.9	9.1	13.4	12.9	10.3	11.1	9.1	9.9	19.4	9.9	12.7	
8	25.4	10.9	9.3	261.8	12.7	10.3	10.9	9.3	9.9	12.7	10.1	12.9	
9	951.9	10.9	12.5	29.1	12.7	10.3	10.7	9.5	10.3	11.1	10.3	12.7	
10	1311.6	11.1	38.6	19.2	13.4	10.5	10.3	9.5	9.5	11.1	10.3	12.4	
11	117.4	10.9	1487.9	13.8	84.1	10.7	10.1	9.3	8.7	10.9	10.3	12.7	
12	44.4	10.7	323.2	12.7	22.3	10.7	10.9	14.0	8.7	10.1	10.3	16.4	
13	29.3	10.9	30.4	48.3	12.0	10.7	11.6	17.7	8.9	10.1	10.5	40.2	
14	27.0	11.1	19.9	149.8	531.2	10.7	11.3	12.0	9.1	245.3	10.3	14.2	
15	27.4	11.3	18.9	76.0	28.2	10.7	11.3	10.7	10.3	32.5	12.3	12.4	
16	28.3	11.3	18.9	19.3	161.7	10.9	11.3	10.1	814.0	13.4	12.3	12.2	
17	27.9	10.9	18.9	15.1	381.0	10.9	11.1	10.9	670.4	14.2	10.1	12.0	
18	26.1	10.7	18.2	14.3	34.0	10.7	12.0	10.1	387.2	13.2	9.7	12.2	
19	24.4	10.7	17.3	13.6	17.3	10.7	24.5	9.7	15.8	11.6	10.1	12.2	
20	21.8	10.7	17.0	13.6	13.6	10.7	13.5	9.7	8.9	11.1	10.1	12.0	
21	19.2	10.7	68.4	13.6	12.9	10.7	10.7	9.9	7.7	10.9	10.3	121.5	
22	18.6	10.7	234.8	34.7	12.9	10.5	9.9	9.7	6.7	10.7	10.9	741.6	
23	17.6	10.7	92.7	21.7	12.9	10.3	10.5	9.7	6.4	10.7	10.1	62.3	
24	17.6	10.7	229.5	14.8	12.5	10.5	10.7	9.7	6.7	10.9	13.9	33.5	
25	17.6	10.3	123.2	14.3	14.6	10.7	10.7	9.5	8.5	10.9	10.9	27.9	
26	16.4	9.9	56.9	14.1	21.3	12.6	10.7	9.3	10.1	11.1	10.7	25.3	
27	15.3	9.9	32.1	21.5	13.6	10.3	10.7	9.1	8.5	10.7	1760.3	151.5	
28	14.8	11.6	27.0	14.3	13.1	10.1	10.7	9.1	8.4	10.3	1031.2	175.8	
29	14.8	12.2	24.4	12.9	13.1	10.3	10.7	9.5	8.4	10.5	48.3	23.2	
30	16.2		23.2	12.2	13.1	10.5	11.1	9.7	8.2	10.7	24.7	17.7	
31	18.3		26.4		12.9		11.3	9.5		10.9		15.4	
MEAN	13.700	27.000	97.970	43.480	50.510	12.510	11.400	10.530	70.800	37.300	4.730	68.510	
INCHES	2.614	0.581	2.252	0.967	1.161	0.278	0.262	0.242	1.575	0.857	2.330	1.575	
STA AV	1.089	1.332	1.581	0.924	0.858	0.344	0.471	0.497	0.516	0.301	0.717	1.094	

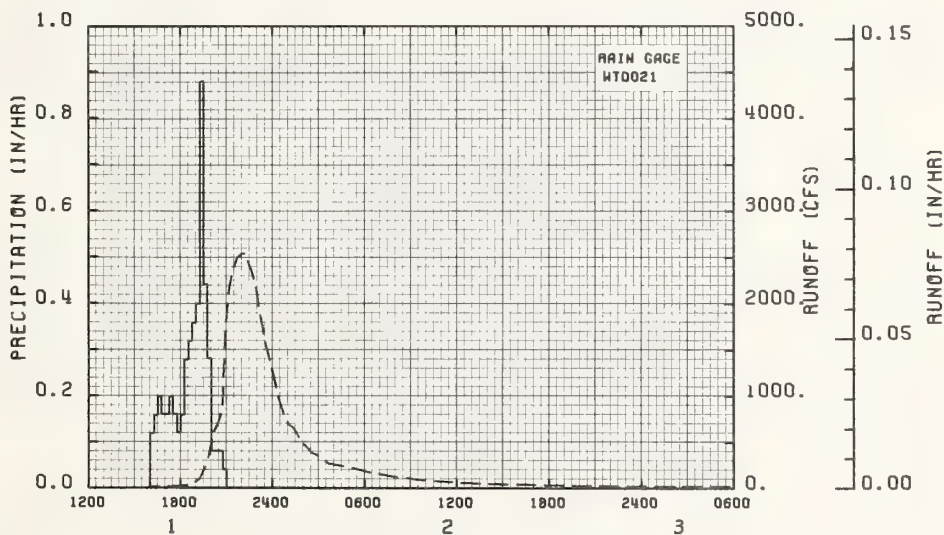
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0007415. Quality of records: Good, estimated to be within 10% of actual. STA AV is for 12 yr (1957-68) record period.

1968			SELECTED RUNOFF EVENT				OXFORD, MISSISSIPPI				WATERSHED W-17	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 6, 1968												
RG WTD021			RG WTD021									
2- 1	0.0	0.009	2- 1	1500	0.0	0.0	2- 1	1600	17.00	0.0		
				1515	0.0039	0.00		1658	18.24	0.0005		
				1530	0.0039	0.00		1738	23.21	0.0009		
				1545	0.0039	0.00		1814	30.16	0.0014		
				1600	0.0200	0.01		1838	45.41	0.0019		
WATERSHED CONDITIONS: About 19% of area in cultivation, primarily cotton, corn, and soybeans, poor to fair cover provided by residue from 1967 crop; 38% in pasture and idle land, fair to good cover; 38% in woods, good cover; 2% in bare gullies; 3% urban.				1615	0.1155	0.04		1856	69.00	0.0024		
				1630	0.1600	0.08		1914	107.61	0.0032		
				1645	0.2200	0.13		1926	180.65	0.0041		
				1700	0.1442	0.17		1948	323.89	0.0070		
				1715	0.1688	0.21		1956	435.79	0.0086		
				1730	0.1920	0.26		2010	605.00	0.0124		
				1745	0.1520	0.30		2034	780.29	0.0210		
				1800	0.1110	0.32		2042	848.89	0.0244		
				1815	0.1562	0.36		2052	1464.00	0.0303		
				1830	0.2685	0.43		2056	1746.00	0.0336		
				1845	0.3368	0.51		2110	2190.00	0.0478		
				1900	0.3569	0.60		2126	2370.00	0.0666		
				1915	0.4080	0.70		2142	2502.00	0.0867		
				1930	0.8640	0.92		2158	2544.00	0.1075		
				1945	0.4520	1.03		2212	2532.00	0.1258		
				2000	0.2880	1.11		2236	2358.00	0.1560		
				2015	0.0960	1.13		2254	2172.00	0.1770		
				2030	0.0967	1.15		2316	1800.00	0.1995		
				2045	0.0720	1.17		2334	1542.00	0.2150		
				2100	0.0247	1.18		2400	1260.00	0.2338		
	2115	0.0	1.18	2- 2	28	921.00	0.2495					
	2130	0.0003	1.18		46	772.50	0.2573					
	2145	0.0003	1.18		102	695.30	0.2633					
	2200	0.0003	1.18		124	635.00	0.2708					
	2215	0.0010	1.18		152	504.26	0.2790					
	2230	0.0112	1.18		220	419.73	0.2857					
	2245	0.0	1.18		232	385.27	0.2882					
	2300	0.0040	1.18		302	335.89	0.2938					
	2315	0.0007	1.18		336	266.96	0.2991					
	2330	0.0	1.18		452	227.77	0.3088					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.

1968	SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI		WATERSHED W-17		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY					1 - 6, 1968 (CONTINUED)					
				2345	0.0007	1.18	2- 2	622	166.72	0.3179
								716	181.09	0.3222
								758	121.94	0.3248
								924	90.66	0.3297
								1056	70.41	0.3335
								1226	56.00	0.3364
								1526	39.75	0.3408
								1830	29.23	0.3441
								2130	23.21	0.3465
								2400	20.96	0.3482
							2- 3	2400	12.90	0.3608
							2- 4	2400	12.00	0.3700
							2- 5	2400	11.12	0.3786
							2- 6	2400	10.69	0.3867

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 4 thru 9, 13 thru 15, 17 thru 20, 22, 25, 28 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 6, 1968
OXFORD, MISSISSIPPI WATERSHED W-17

OXFORD, MISSISSIPPI WATERSHED W-24

LOCATION: Marshall Co., Miss.: 2.2 mi. SW of Holly Springs on County road; Little Sand Ditch, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 512.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-24	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	6.62	2.24	6.94	4.72	5.65	1.62	1.32	1.51	9.55	4.64	7.48	5.28	57.56	
	O	2.959	0.536	1.633	1.641	0.507	0.005	0.0	0.000	1.248	1.042	2.319	2.778	14.668	
STA AV	P	3.91	4.87	5.06	4.53	4.45	2.94	4.11	3.51	4.42	2.27	4.33	5.07	49.46	
	O	1.136	1.511	1.456	1.118	0.629	0.110	0.220	0.293	0.269	0.142	0.569	1.047	8.501	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		11-27	0.900	11-27	0.680	11-27	0.890	11-27	1.250	11-27	1.640	11-27	2.180	11-27	2.270
															2.970
MAXIMUMS FOR PERIOD OF RECORD															
		2-23	1.040	2-23	0.900	2-23	1.360	2-23	1.640	2-23	1.860	3-28	2.390	1-30	3.160
		1962		1962		1962		1962		1962		1965		1957	5.320

NOTES: Watershed conditions: About 4% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 13% in pasture and idle land, good cover April to October with fair cover remainder of year; 81% in woods, good cover; 2% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1968. About 7% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.7-4. Monthly precipitation Thiessen weighted from rain gages 4 and 30. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-24	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	1	0.07	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70		
	2	0.03	0.0	0.0	0.71	0.0	0.53	0.0	0.19	0.0	0.0	0.0	0.0		
	3	1.08	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.29	0.26	0.32	0.20		
	4	0.0	0.0	0.0	0.67	0.0	0.05	0.0	0.0	0.29	0.0	0.0	0.0		
	5	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.24	1.29	0.0	0.0		
	6	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.31	0.0	0.0		
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	8	0.21	0.0	0.0	1.22	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	9	2.16	0.0	0.74	0.03	0.03	0.0	0.02	0.0	0.17	0.0	0.0	0.0		
	10	0.81	0.0	0.31	0.0	0.10	0.0	0.25	0.07	0.0	0.0	0.0	0.0		
	11	0.0	0.0	2.68	0.0	1.19	0.0	0.0	0.0	0.0	0.0	0.12	0.0		
	12	0.74	0.0	0.05	0.0	0.07	0.0	0.0	0.64	0.0	0.0	0.0	0.67		
	13	0.0	0.0	0.0	0.44	0.15	0.0	0.02	0.46	0.0	0.03	0.0	0.06		
	14	0.0	0.0	0.0	0.48	1.49	0.0	0.0	0.07	0.0	1.35	0.0	0.0		
	15	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.03	1.19	0.0	0.73	0.0		
	16	0.0	0.0	0.06	0.0	0.61	0.0	0.0	0.02	1.87	0.0	0.0	0.0		
	17	0.0	0.0	0.0	0.0	0.81	0.07	0.0	0.0	2.54	0.39	0.09	0.0		
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.11	0.0	0.0	0.04		
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.06		
	20	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	21	0.0	0.05	1.15	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29		
	22	0.0	0.0	1.29	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04		
	23	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.67	0.0		
	25	0.0	0.0	0.0	0.0	0.70	0.30	0.0	0.0	0.79	0.0	0.0	0.0		
	26	0.0	0.0	0.0	0.0	0.08	0.66	0.0	0.0	0.03	0.0	0.0	0.0		
	27	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	4.23	1.18		
	28	0.0	0.57	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.88	0.0		
	29	0.0	0.12	0.05	0.03	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	30	0.23		0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.45	0.04		
	31	0.21		0.37		0.0									
TOTAL		6.62	2.24	6.94	4.72	5.65	1.62	1.32	1.51	9.55	4.64	7.48	5.28		
STA AV		3.91	4.87	5.06	4.53	4.45	2.94	4.11	3.51	4.42	2.27	4.33	5.07		

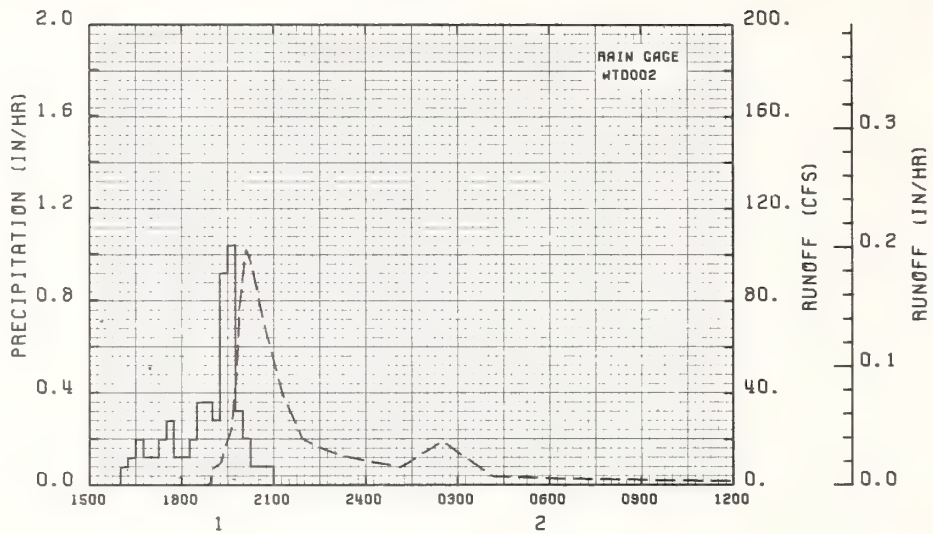
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 4 and 30. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-24												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	7.312	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.491
2	0.0	3.130	0.0	0.150	0.0	0.109	0.0	0.0	0.0	0.0	0.0	2.289
3	4.694	0.238	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.671
4	0.370	0.216	0.0	0.770	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.409
5	0.111	0.131	0.0	0.337	0.0	0.0	0.0	0.0	0.0	0.374	0.0	1.915
6	3.125	0.114	0.0	0.175	0.0	0.0	0.0	0.0	0.0	15.212	0.0	1.387
7	0.175	0.097	0.0	0.136	0.0	0.0	0.0	0.0	0.0	1.546	0.0	1.092
8	0.175	0.097	0.0	0.398	0.0	0.0	0.0	0.0	0.0	0.065	0.0	0.930
9	14.757	0.097	0.391	0.136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.768
10	21.675	0.048	1.275	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.768
11	5.782	0.0	24.468	0.0	0.988	0.0	0.0	0.0	0.0	0.0	0.0	0.930
12	2.995	0.0	3.480	0.0	0.115	0.0	0.0	0.0	0.0	0.0	0.0	1.007
13	1.936	0.0	0.661	0.074	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.845
14	1.120	0.0	0.164	0.615	5.228	0.0	0.0	0.0	0.0	5.010	0.0	0.768
15	0.768	0.055	0.083	0.499	0.034	0.0	0.0	0.0	0.084	0.004	0.260	0.768
16	0.768	0.0	0.034	0.231	1.052	0.0	0.0	0.0	6.731	0.0	0.0	0.768
17	0.768	0.0	0.0	0.231	1.826	0.0	0.0	0.0	13.552	0.197	0.0	0.768
18	0.768	0.0	0.0	0.231	0.175	0.0	0.0	0.0	6.387	0.0	0.0	0.768
19	0.768	0.0	0.0	0.231	0.175	0.0	0.0	0.0	0.027	0.0	0.0	0.768
20	0.768	0.0	0.034	0.231	0.175	0.0	0.0	0.0	0.0	0.0	0.0	0.768
21	0.535	0.0	2.277	0.231	0.175	0.0	0.0	0.0	0.0	0.0	0.0	3.943
22	0.302	0.0	1.587	0.217	0.175	0.0	0.0	0.0	0.0	0.0	0.0	12.051
23	0.302	0.0	0.065	0.115	0.175	0.0	0.0	0.0	0.0	0.0	0.0	1.584
24	0.238	0.0	0.265	0.0	0.087	0.0	0.0	0.0	0.0	0.0	0.266	0.634
25	0.175	0.0	0.221	0.0	0.530	0.0	0.0	0.0	0.066	0.0	0.0	0.500
26	0.153	0.0	0.115	0.0	0.0	0.008	0.0	0.0	0.001	0.0	0.0	0.445
27	0.131	0.0	0.0	0.185	0.0	0.0	0.0	0.0	0.0	0.0	34.898	4.586
28	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.567	3.168
29	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.549	1.591
30	0.083	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.337	1.275
31	0.114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.099
MEAN	2.0530	0.3980	1.1330	1.1770	0.3520	0.0040	0.0	0.0001	0.8950	0.7230	1.6630	1.9280
INCHES	2.959	0.536	1.633	1.641	0.507	0.005	0.0	0.000	1.248	1.042	2.319	2.778
STA AV	1.136	1.511	1.456	1.118	0.629	0.110	0.220	0.293	0.269	0.142	0.569	1.047

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.046488. Quality of records: Poor, estimated to be within 20% of actual. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-24											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 1 - 7, 1968											
RG WTD002											
2- 1	0.0	0.006	2- 1	1600	0.0	0.0	2- 1	1852	0.17	0.0	
				1615	0.0607	0.02		1856	0.63	0.0001	
				1630	0.1200	0.05		1900	7.19	0.0006	
				1645	0.2160	0.10		1918	10.44	0.0057	
				1700	0.1240	0.13		1922	14.48	0.0073	
WATERSHED CONDITIONS:											
About 4% of area in cultivation primarily cotton and corn, poor to fair cover											
provided by residue from 1967 crop; 13% in pasture and idle land, fair to good cover; 81% in woods, good cover; 2% in bare gullies.											
				1715	0.1110	0.16		1938	25.14	0.0175	
				1730	0.2040	0.21		1948	49.00	0.0295	
				1745	0.2920	0.28		1954	79.00	0.0419	
				1800	0.1280	0.31		2006	102.30	0.0770	
				1815	0.1280	0.35		2016	96.00	0.1090	
				1830	0.2166	0.40		2030	82.15	0.1493	
				1845	0.3480	0.49		2040	71.00	0.1740	
				1900	0.3480	0.57		2116	40.13	0.2386	
				1915	0.2927	0.65		2156	19.98	0.2774	
				1930	0.9160	0.88		2216	17.48	0.2895	
				1945	1.0290	1.13		2242	14.96	0.3031	
				2000	0.3160	1.21		2320	12.17	0.3197	
				2015	0.1884	1.26		2400	10.44	0.3343	
				2030	0.0633	1.27	2- 2	106	7.58	0.3535	
				2045	0.0633	1.29		228	19.00	0.3887	
				2100	0.0633	1.31		408	3.59	0.4252	
								616	2.67	0.4381	
								922	1.91	0.4518	
								1804	0.77	0.4743	
								2400	0.17	0.4797	
							2- 3	2400	0.30	0.4908	
							2- 4	2400	0.13	0.5009	
							2- 5	2400	0.13	0.5070	
							2- 6	2400	0.10	0.5123	
							2- 7	2400	0.10	0.5168	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001937. Thiessen weighted storm rainfall, rain gauges 4 and 30. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 7, 1968
OXFORD, MISSISSIPPI WATERSHED W-24

OXFORD, MISSISSIPPI WATERSHED W-28

LOCATION: Marshall Co., Miss.; 2.3 mi. SW of Holly Springs on State Highway No. 7; Walkers Bottom Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1080.00 acres 1.69 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-28	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	6.66	1.95	6.18	4.96	6.70	2.46	0.53	2.72	9.20	5.36	7.59	5.08	59.40	
	O	0.724	0.180	0.735	0.221	0.374	0.026	0.0	0.055	1.229	0.732	1.304	0.316	5.896	
STA AV	P	3.81	4.76	4.88	4.43	4.18	3.09	3.97	3.38	4.68	2.40	4.34	5.08	49.00	
	O	0.372	0.473	0.474	0.257	0.187	0.048	0.119	0.206	0.222	0.098	0.228	0.329	3.012	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date					
1968		11-27 0.530	11-27 0.460	11-27 0.750	11-27 0.970	11-27 1.040	11-27 1.180	11-27 1.260	11-27 1.420						
MAXIMUMS FOR PERIOD OF RECORD															
		8- 2 0.630	8- 2 0.570	8- 2 0.900	8- 2 1.220	8- 2 1.390	1-31 1.450	1-30 2.020	1-27 2.680						
		1967	1967	1967	1967	1967	1957	1957	1957						

NOTES: Watershed conditions: About 12% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 29% in pasture and idle land, good cover April to October with fair cover remainder of year; 58% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1967. About 61% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.8-5. Monthly precipitation Thiessen weighted from rain gages 5, 6 and 7. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-28	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.09	1.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.71		
2	0.04	0.0	0.0	0.82	0.0	1.16	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
3	1.11	0.0	0.0	0.02	0.0	0.0	0.0	0.24	0.26	0.38	0.19	0.0	0.0		
4	0.0	0.0	0.0	0.91	0.0	0.12	0.0	0.0	0.41	0.0	0.0	0.0	0.0		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	1.06	0.0	0.0	0.0		
6	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	1.73	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.17	0.0	0.0	0.90	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	2.21	0.0	0.68	0.01	0.01	0.0	0.07	0.0	0.18	0.05	0.0	0.0	0.0		
10	0.80	0.0	0.27	0.0	0.07	0.0	0.03	0.06	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.70	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0		
12	0.67	0.0	0.03	0.0	0.01	0.0	0.0	1.62	0.0	0.0	0.0	0.59	0.0		
13	0.0	0.0	0.0	0.53	0.19	0.0	0.0	0.45	0.0	0.32	0.0	0.09	0.0		
14	0.0	0.0	0.0	0.62	1.83	0.0	0.0	0.18	0.0	1.44	0.0	0.0	0.0		
15	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.23	1.32	0.0	0.75	0.0	0.0		
16	0.0	0.0	0.05	0.0	0.56	0.0	0.0	0.0	4.27	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.05	0.0	0.0	0.0	2.17	0.51	0.11	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.03	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.07	0.0		
20	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.07	0.99	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.44	0.0		
22	0.0	0.0	0.96	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.0		
23	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0		
25	0.0	0.0	0.0	0.0	1.07	0.54	0.0	0.0	0.38	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.13	0.63	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	4.38	0.99	0.0		
28	0.0	0.56	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0		
29	0.0	0.13	0.0	0.03	0.10	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.26	0.06	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.42	0.02	0.0		
31	0.23	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.66	1.95	6.18	4.96	6.70	2.46	0.53	2.72	9.20	5.36	7.59	5.08			
STA AV	3.81	4.76	4.88	4.43	4.18	3.09	3.97	3.38	4.68	2.40	4.34	5.08			

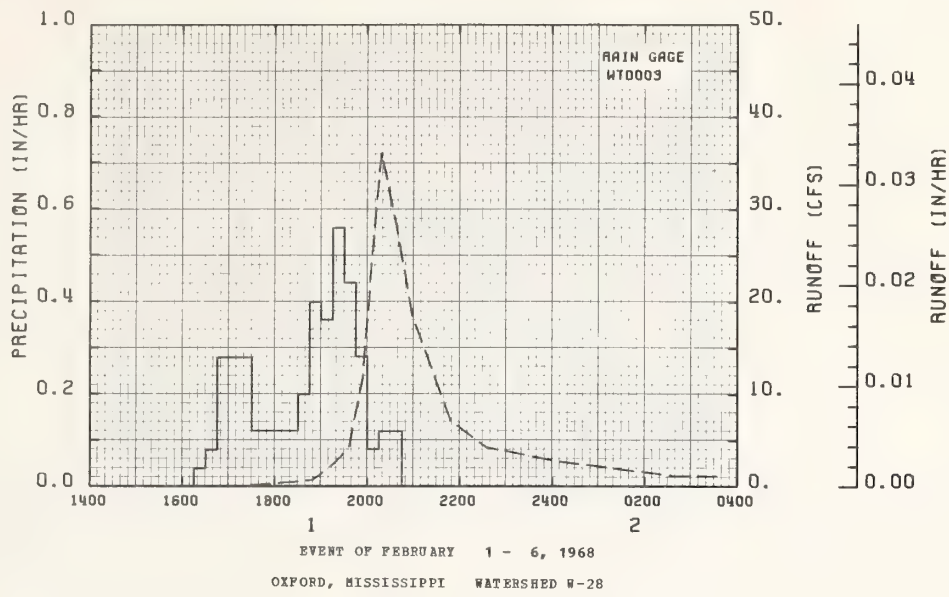
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 5, 6 and 7. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-28												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	2.237	0.0	0.115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.076
2	0.0	0.994	0.0	0.649	0.0	1.152	0.0	0.0	0.0	0.0	0.0	0.177
3	0.017	0.531	0.0	0.215	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.090
4	0.0	0.425	0.0	1.754	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032
5	0.0	0.425	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.413	0.0	0.0
6	1.643	0.425	0.0	0.032	0.0	0.0	0.0	0.0	0.0	25.335	0.0	0.0
7	0.515	0.425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.226	0.425	0.0	1.146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	16.104	0.425	0.0	0.491	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	10.255	0.425	0.006	0.425	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.073	0.332	24.263	0.394	0.759	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.332	0.240	2.272	0.331	0.008	0.0	0.0	2.479	0.0	0.0	0.0	0.0
13	0.240	0.240	0.332	0.571	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0
14	0.240	0.240	0.215	1.711	6.192	0.0	0.0	0.0	0.0	7.470	0.0	0.0
15	0.152	0.240	0.190	0.476	0.439	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.065	0.120	0.152	0.115	1.522	0.0	0.0	0.0	10.861	0.0	0.0	0.0
17	0.065	0.0	0.115	0.132	4.333	0.0	0.0	0.0	18.998	0.0	0.0	0.0
18	0.065	0.0	0.115	0.149	0.422	0.0	0.0	0.0	5.912	0.0	0.0	0.0
19	0.065	0.0	0.115	0.149	0.132	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.065	0.0	0.115	0.149	0.118	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.065	0.0	0.783	0.149	0.087	0.0	0.0	0.0	0.0	0.0	0.0	1.012
22	0.065	0.0	1.462	0.297	0.087	0.0	0.0	0.0	0.0	0.0	0.0	4.000
23	0.065	0.0	0.558	0.181	0.076	0.0	0.0	0.0	0.0	0.0	0.0	0.468
24	0.065	0.0	1.082	0.0	0.065	0.0	0.0	0.0	0.0	0.0	0.0	0.300
25	0.065	0.0	0.362	0.0	1.739	0.0	0.0	0.0	0.0	0.0	0.0	0.300
26	0.065	0.0	0.245	0.0	0.703	0.0	0.0	0.0	0.0	0.0	0.0	0.270
27	0.065	0.0	0.190	0.279	0.224	0.0	0.0	0.0	0.0	0.0	45.431	1.555
28	0.065	0.0	0.190	0.038	0.074	0.0	0.0	0.0	0.0	0.0	10.051	0.547
29	0.065	0.0	0.215	0.014	0.0	0.0	0.0	0.0	0.0	0.0	2.464	0.190
30	0.065	0.0	0.215	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.210	0.169
31	0.065	0.0	0.152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.149
MEAN	1.0590	0.2810	1.0760	0.3340	0.5480	0.0400	0.0	0.0810	1.8590	1.0720	1.9720	0.4620
INCHES	0.724	0.180	0.735	0.221	0.374	0.026	0.0	0.055	1.229	0.732	1.304	0.316
STA AV	0.372	0.473	0.474	0.257	0.187	0.048	0.119	0.206	0.222	0.098	0.228	0.329

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0220387. Quality of records: Poor, estimated to be within 20% of actual. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-28													
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF FEBRUARY 1 - 6, 1968													
RG WTD003													
2- 1	0.01	0.001	2- 1	1615	0.0	0.0	2- 1	1554	0.0	0.0			
				1630	0.0450	0.01		1720	0.11	0.0001			
				1645	0.0640	0.03		1848	0.73	0.0007			
				1700	0.2760	0.10		1912	2.21	0.0012			
				1715	0.2840	0.17		1936	4.20	0.0024			
WATERSHED CONDITIONS: About 12% of area in cultivation, primarily cotton and corn, poor to fair cover provided by residue from 1967 crop; 29% in pasture and idle land, fair to good cover; 58% in woods, good cover; 1% in bare gullies.				1730	0.2840	0.24		1954	11.82	0.0046			
				1745	0.1160	0.27		2010	28.83	0.0096			
				1800	0.1158	0.30		2018	36.11	0.0136			
				1815	0.1320	0.33		2036	28.83	0.0225			
				1830	0.1320	0.36		2058	18.49	0.0305			
				1845	0.1800	0.41		2148	7.11	0.0403			
				1900	0.3965	0.51		2234	4.20	0.0443			
				1915	0.3640	0.60		2400	2.78	0.0489			
				1930	0.5676	0.74	2- 2	236	1.12	0.0536			
				1945	0.4565	0.85		2400	0.64	0.0709			
				2000	0.2920	0.93	2- 3	2400	0.42	0.0826			
				2015	0.1000	0.95	2- 4	2400	0.42	0.0920			
				2030	0.1325	0.98	2- 5	2400	0.42	0.1014			
				2045	0.1118	1.01	2- 6	2400	0.42	0.1108			
				2100	0.0160	1.02							
				2115	0.0120	1.02							
				2330	0.0	1.02							
				2345	0.0120	1.02							

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0009183. Thiessen weighted storm rainfall, rain gauges 5, 6 and 7. For 30-day antecedent P and O, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-32

LOCATION: Marshall Co., Miss.: 4.6 mi. E of Walhill on County road; Cuffawa Creek, Pigeon Roost Creek Watershed Yazoo River Basin.

AREA: 20000.00 acres 31.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										OXFORD, MISSISSIPPI				WATERSHED W-32			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1968	P	6.75	2.09	6.96	4.33	5.54	3.11	2.41	1.64	9.61	5.00	7.80	5.59	60.81			
	O	3.009	0.431	3.082	0.577	1.381	0.137	0.0	0.004	1.507	0.791	2.686	1.969	15.574			
STA AV	P	3.90	4.85	5.04	4.61	4.69	2.99	4.21	3.41	5.00	2.29	4.43	5.23	50.64			
	O	1.204	1.640	1.916	1.001	1.041	0.149	0.385	0.339	0.547	0.139	0.728	1.383	10.474			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval										
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days		
							Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	
1968	3-11	0.460	3-11	0.450	3-11	0.840	3-11	1.650	3-11	2.100	11-27	2.650	11-27	2.680	11-27	3.180	
MAXIMUMS FOR PERIOD OF RECORD																	
	2-23	0.570	2-23	0.560	7- 9	0.960	12- 3	1.940	12- 3	2.450	12- 3	3.480	12- 3	3.720	3-24	6.130	
	1962		1962		1967		1964		1964		1964		1964		1965		

NOTES: Watershed conditions: About 29% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 39% in pasture and idle land, good cover April to October with fair cover remainder of year; 30% in woods, good cover; 2% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1964. About 14% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.10-5. Monthly precipitation Thiessen weighted from 10 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)													OXFORD, MISSISSIPPI WATERSHED W-32	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08	1.11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.73		
2	0.03	0.0	0.0	0.64	0.0	1.24	0.04	0.12	0.0	0.0	0.0	0.0		
3	1.23	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.52	0.42	0.47	0.19		
4	0.0	0.0	0.0	0.62	0.0	0.01	0.0	0.0	0.47	0.0	0.0	0.0		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.11	1.11	0.0	0.0		
6	0.67	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	1.68	0.0	0.0		
7	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
8	0.20	0.0	0.0	0.87	0.08	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
9	2.14	0.0	0.93	0.04	0.01	0.0	0.17	0.0	0.30	0.03	0.0	0.0		
10	0.98	0.0	0.34	0.0	0.08	0.0	0.39	0.23	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.75	0.0	0.75	0.10	0.03	0.0	0.0	0.0	0.14	0.0		
12	0.61	0.0	0.04	0.0	0.04	0.0	0.0	0.81	0.0	0.0	0.0	0.79		
13	0.0	0.0	0.0	0.64	0.09	0.0	0.36	0.27	0.0	0.20	0.0	0.00		
14	0.0	0.0	0.0	0.25	1.79	0.0	0.0	0.02	0.0	1.02	0.0	0.0		
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.04	1.33	0.0	0.79	0.0		
16	0.0	0.0	0.11	0.0	0.69	0.0	0.11	0.0	4.09	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.09	0.0	0.0	0.0	2.55	0.51	0.08	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.08	0.02	0.0	0.0	0.05		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.04		
20	0.0	0.0	0.27	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	1.04	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.54		
22	0.0	0.0	1.11	0.55	0.0	0.0	0.04	0.0	0.0	0.0	0.0	1.14		
23	0.10	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0		
25	0.0	0.0	0.0	0.0	0.45	1.07	0.0	0.0	0.21	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.22	0.69	0.0	0.0	0.01	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	4.32	1.04		
28	0.0	0.64	0.0	0.0	0.20	0.0	0.05	0.0	0.0	0.0	0.78	0.00		
29	0.0	0.13	0.0	0.05	0.04	0.0	0.66	0.0	0.0	0.0	0.0	0.0		
30	0.26	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.55	0.05		
31	0.21	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.75	2.09	6.96	4.33	5.54	3.11	2.41	1.64	9.61	5.00	7.80	5.59		
STA AV	1.90	4.85	5.04	4.61	4.69	2.99	4.21	3.41	5.00	2.29	4.43	5.23		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 3, 10 thru 14, 20, 21, 24 and 26. STA AV is for 12 yr (1957-68) record period.

1968	MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI					WATERSHED W-32		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	282.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	395.0	
2	0.0	75.8	0.0	36.9	0.0	87.5	0.0	0.0	0.0	0.0	0.0	11.2	
3	331.2	2.6	0.0	20.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.2	
4	20.8	0.3	0.0	123.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	
5	0.1	0.2	0.0	8.4	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1	
6	131.1	0.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	466.7	0.0	0.3	
7	3.9	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
8	0.1	0.2	0.0	153.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
9	966.7	0.2	10.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
10	1058.1	0.1	66.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
11	10.0	0.0	1651.3	0.2	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	1.3	0.0	285.8	0.0	0.8	0.0	0.0	3.5	0.0	0.0	0.0	0.7	
13	1.2	0.0	10.3	65.9	0.0	0.0	0.0	0.2	0.0	0.1	0.0	25.6	
14	1.2	0.0	0.7	21.5	453.7	0.0	0.0	0.0	0.0	180.7	0.0	1.7	
15	1.2	0.0	0.3	11.6	6.0	0.0	0.0	0.0	0.6	3.4	0.3	0.2	
16	0.7	0.0	0.2	0.1	185.9	0.0	0.0	0.0	696.4	0.0	0.3	0.1	
17	0.2	0.0	0.2	0.0	482.3	0.0	0.0	0.0	395.2	11.4	0.0	0.0	
18	0.1	0.0	0.2	0.0	8.8	0.0	0.0	0.0	173.6	0.8	0.0	0.0	
19	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	
20	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	42.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182.5	
22	0.0	0.0	138.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	727.4	
23	0.0	0.0	59.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	
24	0.1	0.0	168.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	
25	0.1	0.0	119.8	0.0	1.4	22.5	0.0	0.0	0.0	0.0	0.2	1.0	
26	0.0	0.0	30.7	0.0	4.3	4.9	0.0	0.0	0.0	0.0	0.0	1.1	
27	0.0	0.0	2.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	1569.3	160.6	
28	0.0	0.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	679.1	107.4	
29	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	2.8	
30	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	
31	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	1.5630	2.5010	3.5480	6.1610	7.4300	3.8360	0.0	0.1180	2.1990	1.4470	5.2260	3.3600	
INCHES	3.009	0.431	3.082	0.577	1.381	0.137	0.0	0.004	1.507	0.791	2.686	1.969	
STA AV	1.204	1.640	1.916	1.001	1.041	0.149	0.385	0.339	0.547	0.139	0.728	1.383	

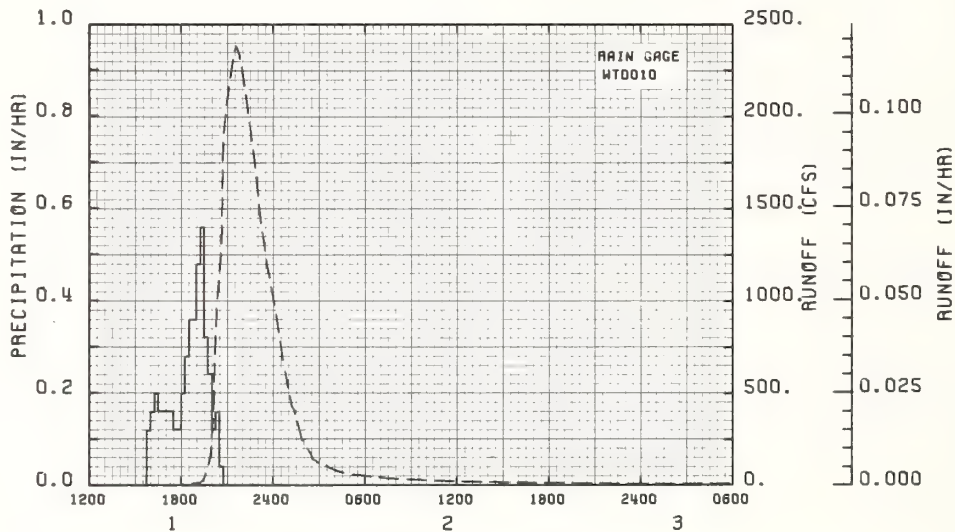
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0011901. Quality of records: Good, estimated to be within 10% of actual. STA AV is for 12 yr (1957-68) record period.

1968	SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI					WATERSHED W-32		
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF FEBRUARY 1 - 4, 1968													
RG WTD010			RG WTD010										
2- 1	0.00	0.000	2- 1	1545	0.0	0.0	2- 1	1546	0.20	0.0			
				1600	0.1199	0.03		1710	0.93	0.0			
				1615	0.1475	0.07		1810	4.42	0.0001			
				1630	0.1926	0.11		1850	11.97	0.0004			
				1645	0.1601	0.15		1910	16.15	0.0006			
WATERSHED CONDITIONS:				1700	0.1447	0.19		1926	28.84	0.0009			
About 29% of area in culti-				1715	0.1518	0.23		1944	87.20	0.0018			
vation, primarily cotton,				1730	0.1483	0.27		1958	198.04	0.0035			
corn and soybeans, poor to				1745	0.1120	0.29		2008	464.62	0.0062			
fair cover provided by resi-				1800	0.1080	0.32		2018	939.69	0.0120			
due from 1967 crop; 39% in				1815	0.2200	0.38		2038	1291.84	0.0305			
pasture and idle land, fair				1830	0.2960	0.45		2046	1890.00	0.0410			
to good cover; 30% in woods,				1845	0.3718	0.54		2054	2010.00	0.0539			
good cover; 2% in bare				1900	0.3680	0.63		2110	2190.00	0.0817			
gullies.				1915	0.4600	0.75		2124	2320.00	0.1078			
				1930	0.5672	0.89		2136	2380.00	0.1311			
				1945	0.3035	0.97		2150	2320.00	0.1583			
				2000	0.2440	1.03		2210	2140.00	0.1952			
				2015	0.1240	1.06		2232	1930.00	0.2322			
				2030	0.1400	1.09		2252	1700.00	0.2622			
				2045	0.0320	1.10		2314	1409.00	0.2905			
				2100	0.0160	1.11		2338	1180.00	0.3162			
				2115	0.0002	1.11		2400	1024.10	0.3362			
				2230	0.0	1.11	2- 2	50	593.76	0.3696			
				2245	0.0	1.11		114	423.22	0.3797			
				2300	0.0035	1.11		124	403.12	0.3831			
								142	302.00	0.3883			
								158	222.81	0.3918			
								222	180.26	0.3958			
								238	136.78	0.3979			
								304	112.96	0.4006			
								414	72.16	0.4060			
								518	54.12	0.4093			
								730	35.38	0.4142			
								1032	22.51	0.4186			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gages 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-32			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 4, 1968 (CONTINUED)										
							2- 2	1502	13.18	0.4226
								1946	8.42	0.4251
								2400	4.93	0.4265
							2- 3	2400	0.30	0.4296
							2- 4	2400	0.24	0.4299

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gages 3, 10 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.



EVENT OF FEBRUARY 1 - 4, 1968
OXFORD, MISSISSIPPI WATERSHED W-32

OXFORD, MISSISSIPPI WATERSHED W-34

LOCATION: Marshall Co., Miss.; 8 mi. S of Byhalia on County road; Pigeon Roost Creek, Yazoo River Basin.

AREA: 75000.00 acres 117.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-34	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	6.72	2.20	6.69	4.81	5.58	2.25	1.82	2.15	9.49	4.60	7.65	5.24	59.21	
	O	3.238	1.015	3.084	1.575	1.441	0.417	0.379	0.338	1.600	1.044	2.872	2.343	19.346	
STA AV	P	3.85	4.78	4.99	4.65	4.43	3.02	4.18	3.82	4.73	2.23	4.27	5.20	50.15	
	O	1.443	1.780	2.044	1.314	1.193	0.484	0.737	0.679	0.803	0.435	0.973	1.589	13.474	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		11-28	0.130	11-28	0.120	11-28	0.250	11-28	0.720	11-27	1.400	11-27	2.270	11-27	3.070
MAXIMUMS FOR PERIOD OF RECORD															
		7- 9	0.150	7- 9	0.150	7- 9	0.290	7- 9	0.800	11-27	2.270	12- 3	2.720	3-24	4.770
		1967		1967		1967		1967		1967		1968		1964	1965

NOTES: Watershed conditions: About 24% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 35% in pasture and idle land, good cover April to October with fair cover remainder of year; 39% in woods, good cover; 1% in bare gullies; 1% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1965. About 18% of area, principally in upper reaches above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.11-4. Monthly precipitation Thiessen weighted from 32 rain gages. Monthly values of runoff include small amounts of flow through auxiliary Station 34-A. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-34	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.07	1.29	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.00	0.0	0.70		
2	0.02	0.0	0.0	0.0	0.70	0.0	0.84	0.01	0.33	0.0	0.0	0.0	0.0		
3	1.15	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.46	0.34	0.39	0.22		
4	0.0	0.0	0.0	0.0	0.71	0.0	0.04	0.0	0.0	0.67	0.0	0.0	0.0		
5	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.16	1.23	0.0	0.0		
6	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.01	0.0	1.54	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
8	0.20	0.0	0.0	0.0	1.12	0.10	0.0	0.07	0.0	0.0	0.0	0.0	0.0		
9	2.09	0.0	0.82	0.03	0.03	0.0	0.08	0.00	0.25	0.02	0.0	0.0	0.0		
10	1.13	0.0	0.32	0.0	0.09	0.0	0.37	0.26	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.54	0.0	1.00	0.03	0.02	0.0	0.0	0.0	0.12	0.0	0.0		
12	0.62	0.0	0.04	0.0	0.06	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.80		
13	0.0	0.0	0.0	0.53	0.13	0.0	0.11	0.32	0.0	0.16	0.0	0.0	0.02		
14	0.0	0.0	0.0	0.85	1.68	0.0	0.0	0.05	0.0	0.78	0.0	0.0	0.0		
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.11	1.21	0.0	0.75	0.0	0.0		
16	0.0	0.0	0.09	0.0	0.66	0.0	0.09	0.01	3.95	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.92	0.01	0.0	0.10	2.31	0.53	0.09	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.03	0.04	0.0	0.0	0.0	0.05		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.04		
20	0.0	0.0	0.37	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	1.05	0.02	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.39		
22	0.0	0.0	1.08	0.66	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1.03		
23	0.13	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.63	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.44	0.61	0.0	0.42	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.19	0.72	0.00	0.0	0.02	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.35	0.95		
28	0.0	0.59	0.0	0.0	0.21	0.0	0.02	0.0	0.0	0.0	0.0	0.80	0.00		
29	0.0	0.12	0.00	0.04	0.08	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.28		0.05	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.52	0.04		
31	0.20		0.34		0.0		0.0		0.0		0.0		0.0		
TOTAL		6.72	2.20	6.69	4.81	5.58	2.25	1.82	2.15	9.49	4.60	7.65	5.24		
STA AV		3.85	4.78	4.99	4.65	4.43	3.02	4.18	3.82	4.73	2.23	4.27	5.20		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 1 thru 31 and 33. STA AV is for 12 yr (1957-68) record period.

1968	MEAN DAILY DISCHARGE (cfs)					OXFORD, MISSISSIPPI WATERSHED W-34						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	73.0	894.1	60.6	71.1	39.1	34.5	38.5	34.5	34.5	41.7	38.0	1415.6
2	60.0	919.4	55.1	233.1	39.1	169.5	38.0	51.3	34.1	42.4	37.1	157.9
3	968.7	120.8	52.5	288.2	39.7	66.7	36.9	40.2	36.2	43.2	39.7	85.7
4	297.6	76.3	51.6	750.8	39.1	35.3	36.9	32.4	57.8	42.4	43.4	89.2
5	86.3	60.6	50.7	175.3	38.5	34.9	37.4	31.0	42.0	47.2	43.3	65.0
6	595.6	57.8	49.0	66.9	39.1	34.9	37.9	31.0	33.4	1608.9	43.2	55.5
7	150.0	53.4	48.1	54.5	41.0	34.5	39.8	30.7	32.1	108.7	43.3	50.0
8	73.4	49.9	48.1	1339.3	41.7	34.5	42.4	31.8	32.4	46.5	44.0	45.7
9	2312.4	49.9	92.1	212.7	41.7	34.5	39.6	32.1	33.1	37.4	44.8	45.7
10	3749.5	49.9	349.4	90.3	42.4	34.1	38.2	33.5	32.4	36.5	44.8	46.5
11	394.9	49.0	2137.1	64.6	148.9	34.1	39.7	34.2	32.1	36.0	44.8	47.3
12	138.8	48.1	2740.4	54.5	131.6	34.5	39.1	35.5	32.1	36.0	44.8	75.7
13	154.0	47.3	157.7	155.5	46.7	34.9	39.1	63.2	31.4	36.0	43.3	272.9
14	77.4	46.4	89.8	241.7	1341.0	34.9	38.0	32.5	30.7	374.4	41.1	76.7
15	79.1	48.1	73.5	195.1	162.4	34.5	37.4	32.2	32.9	114.1	46.6	37.2
16	86.0	49.0	67.6	51.8	575.4	35.3	38.5	31.8	2103.0	29.3	55.1	33.4
17	88.0	45.7	61.8	48.9	1050.1	36.5	38.5	44.1	836.5	84.7	42.8	51.7
18	87.0	43.2	59.8	46.5	148.3	36.5	39.8	37.5	1056.8	56.0	39.4	50.0
19	76.1	42.5	59.8	43.2	58.5	35.6	63.6	32.1	66.6	33.9	38.7	50.9
20	66.3	43.3	69.4	41.8	44.9	35.2	47.6	30.6	50.7	31.8	39.3	50.9
21	60.6	44.8	446.1	41.0	41.2	36.1	37.4	29.5	42.7	32.1	39.9	459.3
22	56.9	44.8	681.9	148.4	38.5	36.9	35.7	30.3	39.1	33.9	41.2	2417.2
23	55.1	44.0	463.2	152.6	37.4	37.4	35.3	31.1	39.1	34.2	42.7	255.5
24	54.2	43.2	783.4	65.4	36.9	37.9	35.6	31.1	39.1	34.6	63.0	94.9
25	51.6	42.5	446.3	58.7	37.4	65.7	34.9	31.4	44.4	35.8	53.9	70.6
26	48.1	42.5	214.4	55.1	56.8	74.8	34.5	31.0	52.1	37.0	46.0	62.2
27	45.6	43.2	86.1	77.9	40.8	42.5	34.5	30.3	37.0	37.5	3037.1	226.4
28	44.8	44.0	61.2	54.7	36.5	39.7	34.5	30.3	36.0	38.6	4567.1	753.9
29	44.8	54.6	50.2	42.4	35.6	39.1	34.9	31.0	36.0	41.2	206.7	113.2
30	56.5	47.5	41.0	34.9	38.5	35.6	32.8	36.5	40.6	95.4	69.8	69.8
31	70.2	60.8	60.8	34.5	34.5	35.3	34.5	34.5	38.0	38.0	57.6	57.6
MEAN	29.120	10.290	13.460	65.440	46.450	43.800	38.550	34.370	68.090	6.150	1.680	38.190
INCHES	3.238	1.015	3.084	1.575	1.441	0.417	0.379	0.338	1.600	1.044	2.872	2.343
STA AV	1.443	1.780	2.044	1.314	1.193	0.484	0.737	0.679	0.803	0.435	0.973	1.589

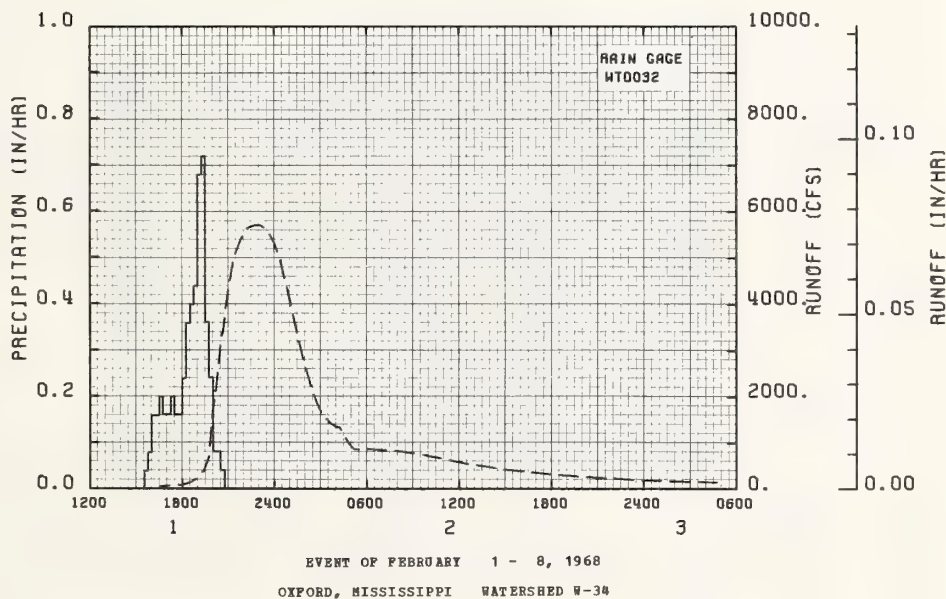
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.00031736. Quality of records: Good, estimated to be within 10% of actual. Daily discharge values include relatively insignificant flow through auxiliary station 34-A. STA AV is for 12 yr (1957-68) record period.

1968	SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI WATERSHED W-34					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 1 - 8, 1968											
RG WTD032											
2- 1	0.0	0.016	2- 1	1500	0.0	0.0	2- 1	1634	72.05	0.0	
				1515	0.0030	0.00		1716	75.95	0.0007	
				1530	0.0049	0.00		1800	100.19	0.0016	
				1545	0.0350	0.01		1836	169.86	0.0027	
				1600	0.0846	0.03		1904	264.00	0.0040	
WATERSHED CONDITIONS:				1615	0.1447	0.07		1924	408.60	0.0055	
About 24% of area in cultivation, primarily cotton,				1630	0.1720	0.11		1944	723.19	0.0080	
corn and soybeans, poor to				1645	0.1880	0.16		2000	1766.00	0.0124	
fair cover provided by residue from 1967 crop; 35% in				1700	0.1400	0.19		2012	2126.00	0.0175	
pasture and idle land, fair				1715	0.1755	0.24		2022	2669.00	0.0228	
to good cover; 39% in woods,				1730	0.1880	0.28		2030	3137.00	0.0279	
good cover; 1% in bare				1745	0.1751	0.33		2040	3470.00	0.0352	
gullies; 1% urban.				1800	0.1640	0.37		2056	4189.99	0.0487	
				1815	0.2480	0.43		2114	4799.98	0.0665	
				1830	0.3481	0.52		2130	5149.98	0.0841	
				1845	0.3838	0.61		2152	5449.98	0.1098	
				1900	0.4240	0.72		2212	5614.37	0.1342	
				1915	0.6876	0.89		2230	5691.98	0.1566	
				1930	0.7000	1.07		2246	5713.98	0.1767	
				1945	0.3672	1.16		2310	5669.99	0.2068	
				2000	0.2520	1.22		2334	5549.58	0.2365	
				2015	0.0921	1.24		2400	5299.98	0.2676	
				2030	0.0964	1.27	2- 2	24	4919.98	0.2946	
				2045	0.0487	1.28		44	4439.98	0.3152	
				2100	0.0200	1.29		106	3910.00	0.3354	
				2115	0.0040	1.29		134	3209.00	0.3574	
				2130	0.0001	1.29		158	2696.00	0.3730	
				2145	0.0001	1.29		218	2286.00	0.3840	
				2200	0.0001	1.29		244	1870.00	0.3959	
				2215	0.0004	1.29		308	1590.00	0.4051	
				2230	0.0048	1.29		338	1415.00	0.4150	
				2245	0.0073	1.29		400	1331.00	0.4217	
				2300	0.0033	1.29		414	1317.00	0.4258	
				2315	0.0003	1.29		438	1086.00	0.4322	
				2330	0.0	1.29		454	935.28	0.4358	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-34		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)
EVENT OF FEBRUARY 1 - 8, 1968 (CONTINUED)								
			2345	0.0003	1.29	2- 2	510	847.00
							540	847.00
							554	855.00
							636	838.99
							722	822.87
							812	799.12
							904	761.20
							958	704.05
							1052	645.80
							1146	581.00
							1238	526.60
							1338	475.72
							1442	421.40
							1550	383.00
							1716	326.90
							1822	297.72
							1928	266.75
							2100	237.00
							2232	207.42
							2400	179.97
						2- 3	212	160.00
							502	137.00
							858	121.49
							1434	108.59
							2006	100.19
							2400	89.92
						2- 4	2400	62.34
						2- 5	2400	58.59
						2- 6	2400	56.77
						2- 7	2400	49.73
						2- 8	2400	49.73
								0.4389
								0.4445
								0.4471
								0.4549
								0.4633
								0.4722
								0.4811
								0.4898
								0.4978
								0.5051
								0.5114
								0.5180
								0.5243
								0.5303
								0.5370
								0.5415
								0.5456
								0.5507
								0.5552
								0.5590
								0.5639
								0.5695
								0.5762
								0.5847
								0.5923
								0.5972
								0.6214
								0.6406
								0.6589
								0.6758
								0.6916

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 31 and 33. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-35

LOCATION: Marshall Co., Miss.; 0.3 mi. W of Chulahoma on State Highway No. 4; Cuffawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 7550.00 acres 11.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI				WATERSHED W-35			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual							
1968	P	6.58	1.93	6.97	4.15	5.26	3.78	2.26	1.49	9.88	5.19	7.55	5.53	60.57							
	O	3.196	0.342	3.563	0.615	0.871	0.278	0.0	0.0	1.761	0.890	2.928	2.155	16.599							
STA AV	P	3.83	4.79	5.04	4.54	4.82	3.00	4.14	3.18	5.20	2.24	4.34	5.15	50.26							
	O	1.421	1.743	2.002	1.041	1.072	0.142	0.357	0.293	0.559	0.111	0.711	1.371	10.825							
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																					
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval													
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days					
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1968		3-11	0.710	3-11	0.680	3-11	1.230	3-11	2.080	3-11	2.450	11-27	2.890	11-27	2.920	11-27	3.430				
MAXIMUMS FOR PERIOD OF RECORD																					
		5-26	0.880	5-26	0.840	5-26	1.480	2-23	2.190	5- 6	2.710	12- 3	3.090	1-30	3.460	3-24	5.690				
		1963		1963		1963		1962		1967		1964		1957		1965					

NOTES: Watershed conditions: About 32% in cultivation (cotton, corn and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 29% in pasture and idle land; good cover April to October with fair cover remainder of year; 38% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1971. About 22% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.12-5. Monthly precipitation Thiessen weighted from 5 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-35	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08	0.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71		
2	0.03	0.0	0.0	0.62	0.0	1.56	0.07	0.03	0.0	0.0	0.0	0.0		
3	1.25	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.50	0.37	0.53	0.19		
4	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0		
5	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.08	1.07	0.0	0.0		
6	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.77	0.0	0.0		
7	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.21	0.0	0.0	0.79	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	2.12	0.0	0.92	0.05	0.00	0.0	0.20	0.0	0.31	0.04	0.0	0.0		
10	0.89	0.0	0.31	0.0	0.07	0.0	0.30	0.40	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.84	0.0	0.57	0.11	0.01	0.0	0.0	0.0	0.13	0.0		
12	0.57	0.0	0.03	0.0	0.04	0.0	0.0	0.67	0.0	0.0	0.0	0.73		
13	0.0	0.0	0.0	0.62	0.09	0.0	0.21	0.27	0.0	0.29	0.0	0.01		
14	0.0	0.0	0.0	0.16	1.62	0.0	0.0	0.02	0.0	1.15	0.0	0.0		
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.04	1.42	0.0	0.80	0.0		
16	0.0	0.0	0.13	0.0	0.78	0.0	0.02	0.0	4.17	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.0	2.72	0.50	0.11	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.01	0.0	0.0	0.05		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.04		
20	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	1.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.58		
22	0.0	0.0	1.10	0.50	0.0	0.0	0.09	0.0	0.0	0.0	0.0	1.06		
23	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0		
25	0.0	0.0	0.0	0.0	0.43	1.52	0.0	0.0	0.22	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.22	0.59	0.0	0.0	0.00	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	4.04	1.09		
28	0.0	0.65	0.0	0.0	0.19	0.0	0.03	0.0	0.0	0.0	0.67	0.0		
29	0.0	0.14	0.0	0.04	0.02	0.0	0.87	0.0	0.0	0.0	0.0	0.0		
30	0.27	0.0	0.18	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.54	0.06		
31	0.21	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.58	1.93	6.97	4.15	5.26	3.78	2.26	1.49	9.88	5.19	7.55	5.53		
STA AV	3.83	4.79	5.04	4.54	4.82	3.00	4.14	3.18	5.20	2.24	4.34	5.15		

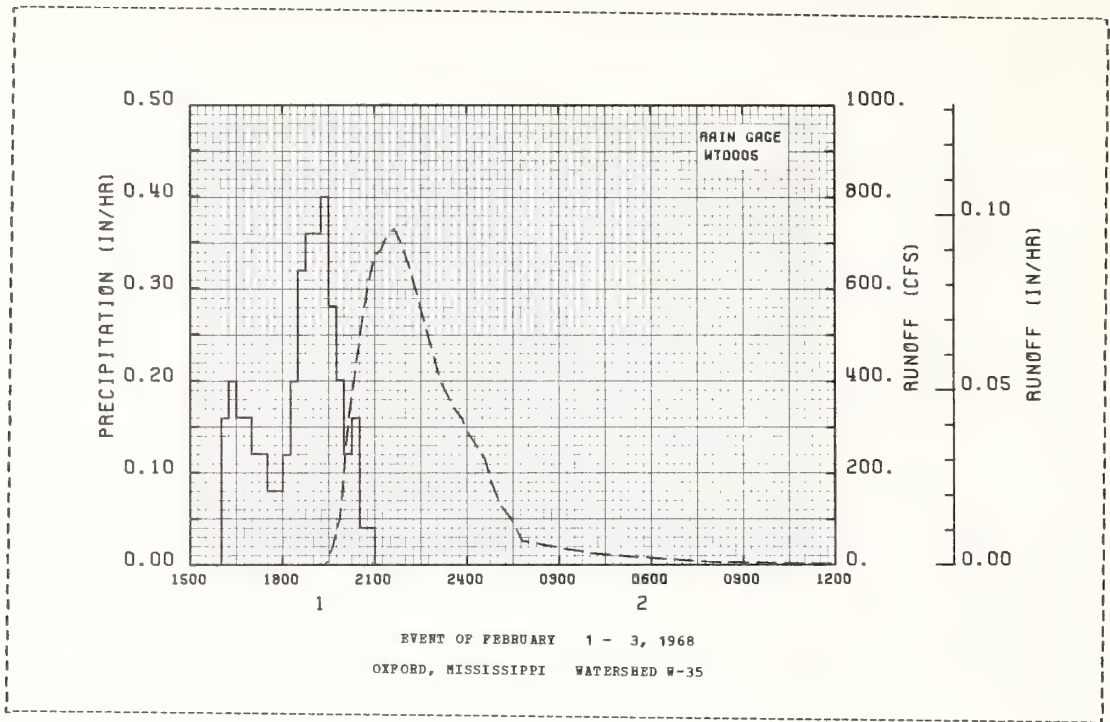
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 10, 11, 20, 21 and 24. STA AV is for 12 yr (1957-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-35												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	88.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.73
2	0.0	19.68	0.0	25.27	0.0	54.59	0.0	0.0	0.0	0.0	0.0	1.52
3	166.28	0.01	0.0	6.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47
4	6.95	0.0	0.0	66.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32
5	0.0	0.0	0.0	2.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	60.52	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	204.62	0.0	0.0
7	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	57.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	369.41	0.0	4.70	4.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	399.66	0.0	11.35	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.15	0.0	757.55	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.04	0.0	75.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25
13	0.53	0.0	2.77	29.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.30
14	0.32	0.0	0.09	1.20	71.35	0.0	0.0	0.0	0.0	73.66	0.0	0.0
15	0.28	0.0	0.0	0.61	0.03	0.0	0.0	0.0	0.0	0.27	0.06	0.0
16	0.77	0.0	0.0	0.0	60.26	0.0	0.0	0.0	256.63	0.0	0.0	0.0
17	2.00	0.0	0.0	0.0	194.15	0.0	0.0	0.0	226.52	3.73	0.0	0.0
18	1.75	0.0	0.0	0.0	0.60	0.0	0.0	0.0	75.31	0.0	0.0	0.0
19	0.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.23	0.0	28.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.04
22	0.08	0.0	82.57	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	294.69
23	0.0	0.0	41.16	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.08
24	0.0	0.0	83.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.39	0.15
25	0.0	0.0	37.49	0.0	0.0	32.10	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	3.20	0.0	0.0	1.58	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.57	0.55	0.0	0.0	0.0	0.0	0.0	0.0	670.40	83.59
28	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	254.07	40.67
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.90	0.76
30	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0
31	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	2.7060	3.7390	6.4620	6.5020	8.9160	2.9420	0.0	0.0	8.6160	9.1060	0.9610	2.0510
INCHES	3.196	0.342	3.563	0.615	0.871	0.278	0.0	0.0	1.761	0.890	2.928	2.155
STA AV	1.421	1.743	2.002	1.041	1.072	0.142	0.357	0.293	0.559	0.111	0.711	1.371

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.0031526. Quality of records: Fair, estimated to be within 15% of actual. STA AV is for 12 yr (1957-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-35												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 3, 1968												
RG WTD005												
2- 1	0.02	0.0	2- 1	1600	0.0	0.0	2- 1	1912	0.0	0.0		
				1615	0.1442	0.04		1924	2.04	0.0		
				1630	0.1960	0.08		1938	42.75	0.0007		
				1645	0.1475	0.12		1952	104.68	0.0030		
				1700	0.1475	0.16		2006	288.96	0.0090		
WATERSHED CONDITIONS:												
About 32% of area in cultivation, primarily cotton, corn and soybeans, poor to fair cover provided by residue from 1967 crop; 29% in pasture and idle land, fair to good cover; 38% in woods, good cover; 1% in bare gullies.												
				1715	0.1321	0.19		2022	428.28	0.0216		
				1730	0.1160	0.22		2038	550.00	0.0387		
				1745	0.0880	0.24		2048	615.00	0.0514		
				1800	0.0880	0.26		2058	670.00	0.0655		
				1815	0.1166	0.29		2112	685.00	0.0863		
				1830	0.1920	0.34		2122	710.00	0.1016		
				1845	0.3280	0.42		2138	730.00	0.1268		
				1900	0.3480	0.51		2154	690.00	0.1517		
				1915	0.3647	0.60		2212	630.00	0.1777		
				1930	0.3880	0.70		2232	545.00	0.2034		
				1945	0.2840	0.77		2254	454.36	0.2275		
				2000	0.2130	0.82		2310	393.00	0.2423		
				2015	0.1360	0.86		2336	337.00	0.2631		
				2030	0.1400	0.89		2350	316.98	0.2731		
				2045	0.0350	0.90		2400	288.96	0.2797		
				2100	0.0232	0.91	2- 2	34	231.43	0.2991		
								46	184.06	0.3046		
								56	154.69	0.3083		
								108	124.03	0.3120		
								128	95.85	0.3168		
								148	51.36	0.3200		
								226	42.75	0.3239		
								406	23.70	0.3312		
								600	13.85	0.3359		
								758	5.37	0.3384		
								1048	2.50	0.3399		
								1500	1.40	0.3410		
								2002	0.65	0.3417		
								2400	0.26	0.3419		
							2- 3	132	0.0	0.3419		

NOTES: To convert CFS to IN/HR, multiply by 0.0001314. Thiessen weighted storm rainfall, rain gages 10, 11, 20, 21 and 24. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-17A

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Holly Springs on County road; Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 3200.00 acres 5.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-17A					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	6.55	2.26	6.24	5.03	4.95	1.27	2.25	2.89	10.15	4.04	7.38	4.93	57.93					
	O	1.898	0.599	2.230	0.951	0.520	0.0	0.003	0.001	1.148	0.471	3.501	1.020	12.342					
STA AV	P	3.50	4.45	5.04	4.67	4.08	2.57	4.57	4.41	4.30	2.10	3.53	5.18	48.38					
	O	0.736	1.245	1.530	0.741	0.602	0.055	0.373	0.382	0.468	0.088	0.382	0.865	7.467					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		3-11	0.300	3-11	0.290	3-11	0.580	11-27	1.540	11-27	2.500	11-27	3.440	11-27	3.480	11-27	3.800		
MAXIMUMS FOR PERIOD OF RECORD																			
		7-9	0.490	7-9	0.490	7-9	0.960	7-9	2.570	7-9	3.510	7-9	3.650	7-9	3.660	2-23	4.150		
		1967		1967		1967		1967		1967		1967		1967		1962			

NOTES: Watershed conditions: About 13% of area in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 18% in pasture and idle land, good cover April to October with fair cover remainder of year; 68% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories and are based on the latest survey completed in 1970. About 46% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from rain gages 2, 17, 22 and 28. Precipitation and runoff records began Jan. 1957; but station averages were computed starting with 1958. Maximum discharges and volumes were not computed prior to 1961; poor records 1958-60. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-17A	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.05	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.69	
2	0.02	0.0	0.0	0.70	0.0	0.24	0.0	0.51	0.0	0.0	0.0	0.0	0.0	
3	1.09	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.42	0.20	0.27	0.27	0.27	
4	0.0	0.0	0.0	0.72	0.0	0.01	0.0	0.0	1.03	0.0	0.0	0.0	0.0	
5	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.26	1.41	0.0	0.0	0.0	
6	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.17	0.0	0.0	1.34	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
9	2.00	0.0	0.74	0.02	0.05	0.0	0.0	0.0	0.23	0.04	0.0	0.0	0.0	
10	1.24	0.0	0.28	0.0	0.09	0.0	0.43	0.53	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	2.33	0.0	0.84	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	
12	0.66	0.0	0.03	0.0	0.07	0.0	0.0	0.89	0.0	0.0	0.0	0.0	0.82	
13	0.0	0.0	0.0	0.50	0.08	0.0	0.0	0.29	0.0	0.00	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.46	1.66	0.0	0.0	0.11	0.0	0.46	0.0	0.0	0.0	
15	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.23	1.02	0.0	0.68	0.0	0.0	
16	0.0	0.0	0.07	0.0	0.78	0.0	0.0	0.0	3.58	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.72	0.02	0.0	0.27	2.59	0.54	0.13	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.02	0.03	0.0	0.0	0.0	0.04	
19	0.0	0.0	0.0	0.0	0.0	0.0	1.41	0.0	0.0	0.0	0.0	0.0	0.03	
20	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.01	0.99	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	
22	0.0	0.0	1.07	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.94	
23	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.35	0.29	0.0	0.0	0.97	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.08	0.71	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	4.28	0.81	0.0	
28	0.0	0.46	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.81	0.0	0.0	
29	0.13	0.0	0.0	0.04	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.27	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.49	0.03	0.0	
31	0.22	0.38			0.0		0.0	0.0		0.0		0.0	0.0	
TOTAL	6.55	2.26	6.24	5.03	4.95	1.27	2.25	2.89	10.15	4.04	7.38	4.93		
STA AV	3.50	4.45	5.04	4.67	4.08	2.57	4.57	4.41	4.30	2.10	3.53	5.18		

NOTES: For daily air temperatures in the vicinity, see table for Watershed 5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 2, 17, 22 and 28. STA AV is for 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-17A												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.05	66.83	0.07	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.07	39.56
2	0.0	11.41	0.07	2.53	0.0	0.0	0.0	0.10	0.0	0.0	0.09	1.87
3	13.87	0.12	0.08	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.26
4	0.09	0.12	0.04	32.56	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.23
5	0.08	0.14	0.0	3.55	0.0	0.0	0.0	0.0	0.0	0.04	0.07	0.17
6	3.47	0.14	0.0	0.09	0.0	0.0	0.0	0.0	0.0	61.84	0.08	0.11
7	0.10	0.06	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.36	0.08	0.10
8	0.04	0.04	0.03	67.88	0.0	0.0	0.0	0.0	0.0	0.04	0.08	0.09
9	84.31	0.08	0.08	0.89	0.0	0.0	0.0	0.0	0.0	0.03	0.08	0.09
10	140.93	0.08	0.23	0.08	0.0	0.0	0.0	0.0	0.0	0.03	0.08	0.09
11	8.60	0.08	211.94	0.07	0.05	0.0	0.0	0.0	0.0	0.03	0.08	0.09
12	0.66	0.08	44.06	0.07	0.07	0.0	0.0	0.07	0.0	0.03	0.08	0.19
13	0.35	0.08	2.39	3.24	0.08	0.0	0.0	0.0	0.0	0.03	0.08	0.58
14	0.26	0.08	0.91	8.76	30.76	0.0	0.0	0.0	0.0	0.03	0.08	0.12
15	0.23	0.07	0.84	2.28	1.03	0.0	0.0	0.0	0.05	0.0	0.08	0.11
16	0.26	0.07	0.50	0.41	20.37	0.0	0.0	0.0	68.83	0.0	0.08	0.09
17	0.26	0.08	0.23	0.24	16.35	0.0	0.0	0.02	39.24	0.0	0.08	0.09
18	0.20	0.08	0.17	0.20	0.57	0.0	0.00	0.0	46.08	0.03	0.08	0.09
19	0.16	0.08	0.13	0.23	0.08	0.0	0.33	0.0	0.09	0.03	0.08	0.09
20	0.13	0.08	0.13	0.23	0.08	0.0	0.02	0.0	0.07	0.03	0.08	0.08
21	0.12	0.08	5.29	0.17	0.08	0.0	0.0	0.0	0.03	0.06	0.08	5.51
22	0.11	0.08	7.01	3.30	0.08	0.0	0.0	0.0	0.0	0.07	0.08	69.74
23	0.11	0.07	2.97	0.16	0.08	0.0	0.0	0.0	0.0	0.08	0.08	7.26
24	0.10	0.07	10.93	0.06	0.08	0.0	0.0	0.0	0.0	0.04	0.08	1.09
25	0.09	0.08	9.13	0.0	0.08	0.0	0.0	0.0	0.0	0.04	0.08	0.84
26	0.09	0.08	1.65	0.0	0.08	0.0	0.0	0.0	0.0	0.08	0.08	0.58
27	0.09	0.08	0.53	0.07	0.04	0.0	0.0	0.0	0.0	0.08	297.83	4.97
28	0.09	0.08	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.08	169.98	2.82
29	0.09	0.08	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.32	0.10
30	0.09	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.57	0.08
31	0.09	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.0	0.03
MEAN	8.2300	2.7750	9.6720	4.2610	2.2570	0.0	0.0110	0.0060	5.1470	2.0420	5.6900	4.4220
INCHES	1.898	0.599	2.230	0.951	0.520	0.0	0.003	0.001	1.148	0.471	3.501	1.020
STA AV	0.736	1.245	1.530	0.741	0.602	0.055	0.373	0.382	0.468	0.088	0.382	0.865

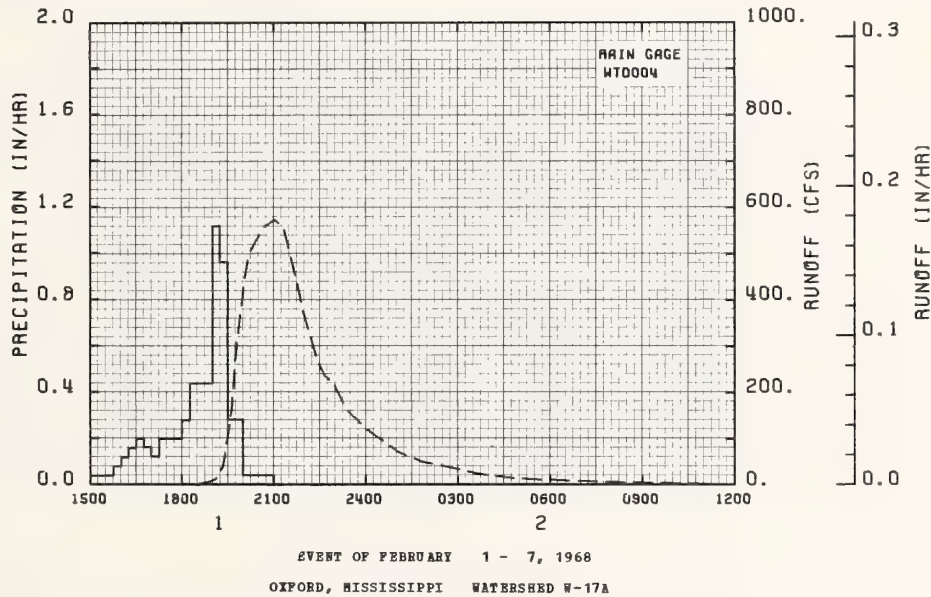
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0074380. Quality of records: Poor, estimated to be within 20% of actual. STA AV is for 11 yr (1958-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-17A												
ANTECEDENT CONDITIONS			RAINFALL									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Runoff	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(cfs)	(inches)	
EVENT OF FEBRUARY 1 - 7, 1968												
RG WTD004			RG WTD004									
2- 1	0.0	0.001	2- 1	1500	0.0	0.0	2- 1	1610	0.09	0.0		
				1515	0.0320	0.01		1720	0.09	0.0		
				1530	0.0320	0.02		1806	0.17	0.0		
				1545	0.0320	0.02		1826	0.63	0.0		
				1600	0.0596	0.04		1836	2.65	0.0001		
WATERSHED CONDITIONS: About 13% of area in cultivation, primarily cotton and corn, poor to fair cover provided by residue from 1967 crop; 18% in pasture and idle land, fair to good cover; 68% in woods, good cover; 1% in bare gullies.				1615	0.1233	0.07		1856	7.60	0.0006		
				1630	0.1400	0.10		1910	16.29	0.0015		
				1645	0.1840	0.15		1920	38.98	0.0029		
				1700	0.1760	0.19		1932	118.90	0.0078		
				1715	0.1240	0.23		1938	168.83	0.0123		
				1730	0.1960	0.27		1946	288.00	0.0217		
				1745	0.2155	0.33		2000	420.00	0.0473		
				1800	0.2155	0.38		2010	496.00	0.0709		
				1815	0.2760	0.45		2026	530.00	0.1133		
				1830	0.4480	0.56		2042	558.00	0.1583		
				1845	0.4440	0.67		2100	574.00	0.2109		
				1900	0.4400	0.78		2120	552.00	0.2690		
				1915	1.1040	1.06		2140	462.00	0.3214		
				1930	0.9405	1.30		2200	364.00	0.3641		
				1945	0.2956	1.37		2226	266.00	0.4064		
				2000	0.2956	1.44		2240	234.00	0.4245		
				2015	0.0569	1.46		2258	215.85	0.4454		
				2030	0.0569	1.47		2324	158.69	0.4706		
				2045	0.0485	1.48		2400	120.44	0.4966		
				2100	0.0480	1.50	2- 2	22	102.03	0.5092		
				2115	0.0168	1.50		44	85.00	0.5198		
								102	69.63	0.5270		
								148	48.94	0.5411		
								242	36.95	0.5531		
								332	23.72	0.5609		
								452	12.50	0.5684		
								758	4.82	0.5767		
								1104	1.47	0.5797		
								1706	0.10	0.5812		
								2100	0.09	0.5813		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0003099. Thiessen weighted storm rainfall, rain gages 2, 17, 22 and 28. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-17A			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 7, 1968 (CONTINUED)										
							2- 2	2400	0.12	0.5814
							2- 3	2400	0.12	0.5823
							2- 4	2400	0.12	0.5832
							2- 5	2400	0.17	0.5843
							2- 6	2400	0.12	0.5854
							2- 7	2400	0.0	0.5858

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0003099. Thiessen weighted storm rainfall, rain gages 2, 17, 22 and 28. For 30-day antecedent P and Q, see tables on this and previous page.



OXFORD, MISSISSIPPI WATERSHED W-35A

LOCATION: Marshall Co., Miss.; 0.3 mi. W of Chulahoma on State Highway No. 4; Cuffawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin.

AREA: 1090.00 acres 1.70 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							OXFORD, MISSISSIPPI WATERSHED W-35A												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	6.63	2.06	6.69	4.14	5.46	3.17	2.58	1.60	9.43	4.88	7.59	5.66	59.90					
	O	6.492	0.764	4.450	1.359	1.567	0.187	0.004	0.001	2.029	0.894	3.967	2.883	24.597					
STA AV	P	3.48	4.60	5.19	4.32	4.46	2.67	4.37	3.30	4.69	2.10	3.89	5.19	48.26					
	O	1.517	1.797	2.395	1.060	1.124	0.135	0.537	0.455	0.530	0.127	0.652	1.580	11.909					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		11-27	0.800	11-27	0.770	11-27	1.400	11-27	2.210	11-27	2.930	11-27	3.710	11-27	3.800	11-27	4.540		
MAXIMUMS FOR PERIOD OF RECORD																			
		7- 9	1.300	7- 9	1.270	7- 9	2.390	7- 9	3.240	7- 9	3.280	11-27	3.710	11-27	3.800	3-24	5.120		
		1967		1967		1967		1967		1967		1968		1968		1965			

NOTES: Watershed conditions: About 24% in cultivation (cotton and corn), fair cover November to March, poor cover April and May improving to good by mid-July; 45% in pasture and idle land, good cover April to October with fair cover remainder of year; 30% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1971. About 8% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.12-5. Monthly precipitation Thiessen weighted from rain gages 3, 11, 24 and 26. Precipitation and runoff records began Jan. 1957; but station averages were computed starting with 1958. Maximum discharges and volumes were not computed prior to 1961; poor records 1957-60. For long-time precipitation records, see U.S. Weather Bureau Station records at Holly Springs, 2N, Mississippi.

1968	DAILY PRECIPITATION (inches)						OXFORD, MISSISSIPPI WATERSHED W-35A							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08	1.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.75		
2	0.04	0.0	0.0	0.59	0.0	1.30	0.0	0.05	0.0	0.0	0.0	0.0		
3	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.43	0.49	0.18		
4	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0		
5	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.10	1.09	0.0	0.0		
6	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.71	0.0	0.0		
7	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.22	0.0	0.0	0.84	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	2.07	0.0	0.95	0.04	0.00	0.0	0.18	0.0	0.32	0.04	0.0	0.0		
10	0.92	0.0	0.33	0.0	0.09	0.0	0.40	0.25	0.0	0.0	0.0	0.0		
11	0.0	0.0	2.73	0.0	0.64	0.11	0.0	0.0	0.0	0.0	0.13	0.0		
12	0.62	0.0	0.02	0.0	0.04	0.0	0.0	0.81	0.0	0.0	0.0	0.76		
13	0.0	0.0	0.0	0.67	0.06	0.0	0.47	0.21	0.0	0.02	0.0	0.00		
14	0.0	0.0	0.0	0.21	1.82	0.0	0.0	0.04	0.0	1.03	0.0	0.0		
15	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.05	1.33	0.0	0.77	0.0		
16	0.0	0.0	0.12	0.0	0.70	0.0	0.07	0.0	4.19	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	1.18	0.0	0.0	0.0	2.21	0.57	0.08	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.02	0.0	0.0	0.04		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.04		
20	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.03	0.97	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.59		
22	0.0	0.0	1.04	0.52	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.18		
23	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0		
25	0.0	0.0	0.0	0.0	0.52	1.06	0.0	0.0	0.21	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.16	0.70	0.0	0.0	0.01	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	4.15	1.06		
28	0.0	0.64	0.0	0.0	0.19	0.0	0.05	0.0	0.0	0.0	0.77	0.0		
29	0.0	0.13	0.0	0.05	0.02	0.0	0.82	0.0	0.0	0.0	0.0	0.0		
30	0.26	0.08	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.55	0.05		
31	0.19	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	6.63	2.06	6.69	4.14	5.46	3.17	2.58	1.60	9.43	4.88	7.59	5.66		
STA AV	3.48	4.60	5.19	4.32	4.46	2.67	4.37	3.30	4.69	2.10	3.89	5.19		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-5, p. 62.002-1. Daily precipitation values Thiessen weighted from rain gages 3, 11, 24 and 26. STA AV is for 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-35A												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.49	23.22	1.02	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.39
2	1.37	5.45	0.45	5.04	0.0	7.79	0.0	0.0	0.0	0.0	0.0	2.00
3	26.73	1.38	0.0	3.08	0.0	0.38	0.0	0.0	0.0	0.0	0.0	1.42
4	6.66	0.81	0.0	9.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.15
5	3.28	0.81	0.0	2.38	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.61
6	36.65	0.63	0.0	1.37	0.0	0.0	0.0	0.0	0.0	35.28	0.0	0.29
7	12.12	0.17	0.0	0.92	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.04
8	15.68	0.0	0.0	13.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	74.48	0.0	4.64	2.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	86.46	0.0	8.53	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	4.67	0.0	123.06	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3.14	0.0	7.35	0.70	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.40
13	3.09	0.0	1.99	6.82	0.0	0.0	0.15	0.05	0.0	0.0	0.0	4.80
14	3.20	0.0	1.14	3.77	22.42	0.0	0.01	0.0	0.0	2.14	0.0	0.72
15	2.49	0.0	0.81	2.24	1.86	0.0	0.0	0.0	0.0	0.31	0.39	0.05
16	2.69	0.0	0.70	1.14	10.39	0.0	0.0	0.0	62.46	0.0	0.31	0.06
17	2.49	0.0	0.52	0.91	36.02	0.0	0.0	0.0	20.31	2.26	0.0	0.0
18	1.98	0.0	0.21	0.63	1.05	0.0	0.0	0.0	10.16	0.59	0.0	0.0
19	1.61	0.0	0.04	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1.49	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.26	0.0	8.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.32
22	0.91	0.0	11.46	1.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.77
23	0.91	0.0	6.43	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.38
24	0.71	0.0	13.43	0.10	0.0	0.0	0.0	0.0	0.0	0.0	3.17	1.73
25	0.25	0.0	6.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	1.37
26	0.0	0.0	2.70	0.0	0.02	0.41	0.0	0.0	0.0	0.0	0.0	1.03
27	0.0	0.0	1.14	1.98	0.0	0.0	0.0	0.0	0.0	0.0	132.65	12.64
28	0.0	0.90	0.91	0.45	0.0	0.0	0.0	0.0	0.0	0.0	40.58	7.27
29	0.0	1.62	0.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.12	1.73
30	0.35	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.63	1.14
31	1.15	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71
MEAN	9.5900	1.2060	6.5740	2.0740	2.3150	0.2860	0.0050	0.0020	3.0980	1.3200	6.0550	4.2590
INCHES	6.492	0.764	4.450	1.359	1.567	0.187	0.004	0.001	2.029	0.894	3.967	2.883
STA AV	1.517	1.797	2.395	1.060	1.124	0.135	0.537	0.455	0.530	0.127	0.652	1.580

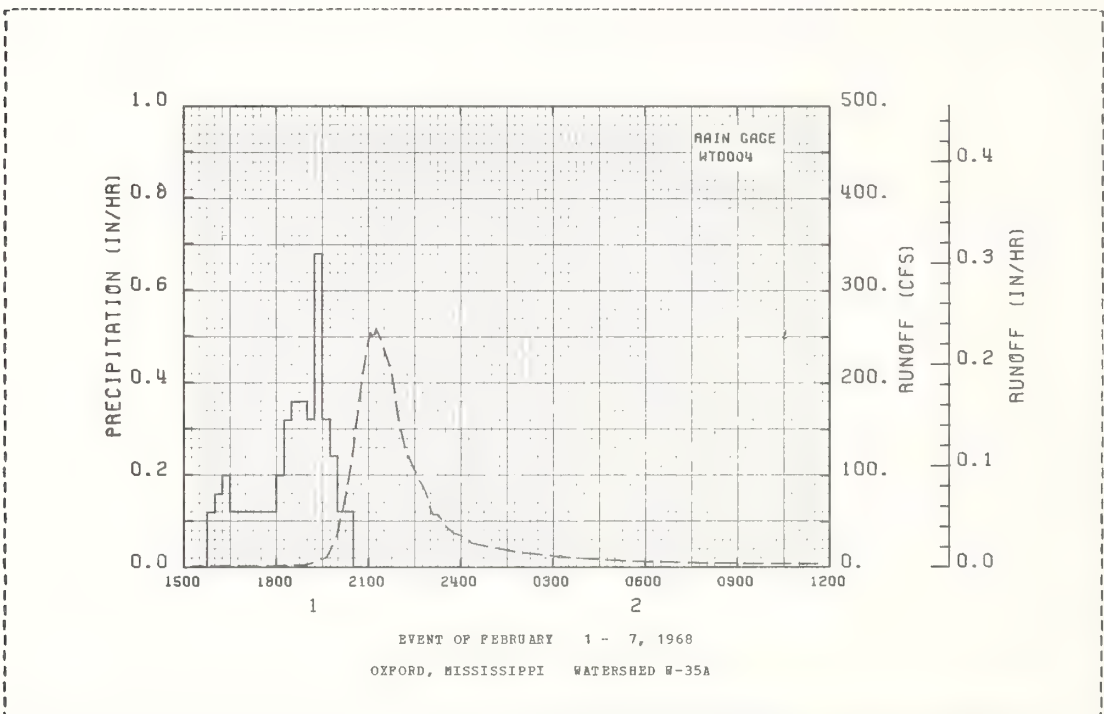
NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.0218365. Quality of records: Fair, estimated to be within 15% of actual. STA AV is for 11 yr (1958-68) record period.

1968 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-35A												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF FEBRUARY 1 - 7, 1968												
RG WTD004			RG WTD004									
2- 1	0.0	0.021	2- 1	1545	0.0	0.0	2- 1	1518	1.37	0.0		
				1600	0.1247	0.03		1734	1.61	0.0031		
				1615	0.1440	0.07		1830	2.10	0.0047		
				1630	0.1880	0.11		1856	3.15	0.0057		
				1645	0.1280	0.15		1918	6.43	0.0073		
WATERSHED CONDITIONS:				1700	0.1280	0.18		1938	11.32	0.0100		
About 24% of area in cultivation, primarily cotton				1715	0.1280	0.21		1958	33.32	0.0168		
and corn, poor to fair cover				1730	0.1280	0.24		2016	79.52	0.0322		
provided by residue from				1745	0.1158	0.27		2026	111.44	0.0467		
1967 crop; 45% in pasture				1800	0.1157	0.30		2038	164.47	0.0718		
and idle land, fair to good												
cover; 30% in woods, good				1815	0.1921	0.35		2048	204.99	0.0998		
cover; 1% in bare gullies.				1830	0.3234	0.43		2056	235.33	0.1265		
				1845	0.3760	0.52		2104	254.27	0.1562		
				1900	0.3760	0.62		2110	245.89	0.1789		
				1915	0.3120	0.69		2114	258.44	0.1942		
				1930	0.6840	0.87		2126	243.78	0.2399		
				1945	0.3280	0.95		2146	208.99	0.3086		
				2000	0.2318	1.01		2158	162.75	0.3424		
				2015	0.1360	1.04		2212	126.37	0.3731		
				2030	0.1360	1.07		2232	102.55	0.4078		
				2045	0.0195	1.08		2244	88.65	0.4252		
				2100	0.0080	1.08		2252	80.79	0.4355		
								2304	57.19	0.4481		
								2316	56.12	0.4584		
								2334	42.12	0.4718		
								2346	36.72	0.4790		
								2400	33.32	0.4864		
								22	25.52	0.4962		
								110	20.00	0.5128		
								158	15.13	0.5256		
								330	9.83	0.5430		
								522	6.43	0.5568		
								800	4.03	0.5693		
								1220	2.87	0.5829		
								1820	1.85	0.5958		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0009099. Thiessen weighted storm rainfall, rain gages 3, 11, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.

1968 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-35A			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF FEBRUARY 1 - 7, 1968 (CONTINUED)										
							2- 2	2128	1.85	0.6011
								2400	1.85	0.6054
							2- 3	2400	0.91	0.6356
							2- 4	2400	0.70	0.6532
							2- 5	2400	0.91	0.6708
							2- 6	2400	0.34	0.6845
							2- 7	2400	0.0	0.6882

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00090999. Thiessen weighted storm rainfall, rain gages 3, 11, 24 and 26. For 30-day antecedent P and Q, see tables on this and previous page.



TOMBSTONE, ARIZONA WATERSHED W-1

LOCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 36900.00 acres 57.66 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-1															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.63	1.38	1.33	0.32	0.0	0.02	3.40	4.71	0.47	0.01	0.41	0.60	13.28															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.059	0.0	0.0	0.0	0.0	0.059															
STA AV	P	0.63	1.38	1.33	0.32	0.00	0.02	3.40	4.71	0.47	0.01	0.41	0.60	13.28															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.054	0.005	0.0	0.0	0.0	0.079															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		8-25	0.021	8-25	0.014	8-25	0.023	8-25	0.033	8-25	0.033	8-24	0.033	8-23	0.033	8-23	0.033	8-23	0.058										
MAXIMUMS FOR PERIOD OF RECORD																													
		7-22	0.130	7-22	0.080	9- 9	0.130	9- 9	0.160	9- 9	0.190	9- 9	0.190	9- 8	0.230	9- 8	0.230	9- 8	0.310										
		1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964										

NOTES: Watershed Conditions: 65% of area in desert shrubs (whitethorn, creosotebush and tarbush) with 25% cover and 2% grass cover. 35% is grassland with approximately 20% grass cover (crown spread) and 5% shrub cover. For topography, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation data: Records began January 1954. Monthly totals are Thiessen weighted averages of 98 gages. Station averages are based on 1 yr only, previously published data are being reevaluated. Runoff data: Records began April 1964. Station averages are for 1966 and 1968. Data for 1964-65 and 1967 are not available for STA AV computations. These data are being reevaluated. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY AIR TEMPERATURE (degrees F)														TOMBSTONE, ARIZONA WATERSHED W-1													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	56	30	61	31	64	43	76	48	83	54	93	58	96	64	84	65	81	57	89	58	75	54	54	34			
2	62	38	62	35	65	45	69	45	80	51	100	63	96	69	90	61	88	60	81	59	72	46	50	35			
3	59	40	66	37	62	42	59	38	80	52	98	66	89	60	90	61	85	61	80	59	77	47	53	27			
4	55	32	62	37	60	36	69	38	81	50	94	64	78	64	83	60	88	61	79	57	74	50	62	34			
5	55	30	67	37	67	39	76	42	82	54	88	64	84	62	90	62	93	61	82	47	71	75	70	41			
6	57	30	66	43	64	46	68	48	78	48	82	59	82	60	86	62	90	64	84	53	69	43	68	40			
7	44	40	64	43	64	46	72	38	82	47	80	60	88	64	91	62	91	61	84	56	74	43	64	42			
8	46	33	66	48	59	45	76	42	83	50	78	56	92	64	91	63	96	64	83	57	64	40	61	34			
9	53	33	48	48	53	41	73	45	78	56	77	52	96	67	90	64	94	64	83	56	71	40	72	44			
10	52	40	54	45	48	33	73	48	78	48	85	49	98	70	83	60	91	64	85	55	74	43	67	46			
11	58	34	61	45	52	35	73	47	78	53	93	56	98	68	91	62	86	62	84	55	74	48	68	46			
12	53	34	54	43	56	32	67	45	75	52	98	60	96	66	93	63	84	62	86	56	77	52	58	34			
13	58	35	57	42	68	37	74	46	79	41	90	66	95	68	88	64	87	60	89	60	65	51	60	34			
14	66	34	57	40	66	44	79	47	80	51	98	61	94	66	88	63	82	62	89	62	49	43	62	37			
15	68	43	60	37	67	36	79	52	84	47	97	62	95	66	92	58	82	60	78	59	53	39	71	43			
16	67	41	65	40	68	50	70	48	82	51	100	60	98	65	91	63	82	59	77	44	59	43	69	43			
17	57	42	64	41	60	49	73	47	82	48	105	67	96	68	90	65	85	56	78	46	61	44	60	37			
18	52	30	62	37	58	38	69	46	86	50	105	70	96	65	91	60	88	59	84	54	67	40	47	23			
19	53	30	70	39	50	35	67	30	91	53	105	70	91	65	93	62	88	60	83	53	72	43	58	28			
20	54	32	70	43	52	30	72	40	94	58	104	72	93	64	71	60	84	61	82	56	68	47	50	36			
21	60	34	72	43	54	29	67	41	92	58	106	69	91	63	86	59	86	60	80	49	73	45	36	20			
22	62	38	64	45	64	34	61	41	86	63	104	70	93	64	88	60	86	61	83	48	70	42	46	16			
23	58	39	70	38	74	43	62	32	84	51	102	70	91	63	89	58	86	55	84	49	74	42	67	26			
24	65	34	78	42	74	42	66	37	84	55	94	69	92	65	90	61	87	55	83	55	75	49	63	37			
25	66	41	76	45	77	47	76	41	87	50	97	64	87	65	85	61	88	62	87	53	66	52	65	44			
26	52	44	79	49	79	46	78	45	91	56	100	65	86	62	88	59	87	62	86	54	51	29	53	44			
27	59	43	74	49	77	50	79	47	97	57	99	68	88	64	90	62	88	58	84	49	54	33	42	27			
28	56	46	68	48	80	48	84	48	98	61	98	62	80	62	91	66	86	58	88	56	53	30	56	29			
29	61	42	63	42	79	48	77	52	96	63	94	68	91	63	84	62	84	58	87	55	45	35	56	30			
30	66	40			76	56	85	50	93	63	95	64	88	65	84	61	88	62	88	57	52	29	57	27			
31	58	43			69	48			90	54			0	0	79	60			78	50			60	34			
AV.	57	37	60	39	64	41	70	42	85	53	92	61	88	62	87	61	84	58	83	54	63	42	58	34			
MEAN	47.4		49.9		53.3		56.2		69.1		76.9		75.5		74.7		71.3		68.8		53.2		46.7				
STA AV	58	35	59	35	67	41	74	45	84	53	90	61	91	66	89	65	84	60	80	53	67	44	58	36			

NOTES: STA AV values are based on 5 yr (1964-1968) record period.

1968 DAILY PRECIPITATION (inches) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.17E	0.00	0.0	0.0	0.0
2	0.0	0.0	0.06	0.03	0.0	0.0	0.60E	0.14E	0.08	0.00	0.0	0.0
3	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.24E	0.18	0.00	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.08F	0.04E	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.73E	0.28	0.0	0.0	0.0	0.0
6	0.0	0.0	0.02	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0
7	0.35M	0.0	0.04E	0.0	0.0	0.0	0.00	0.21E	0.0	0.0	0.0	0.0
8	0.11M	0.0	0.06E	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
9	0.0	0.41E	0.52M	0.19E	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0
10	0.07S	0.30E	0.61M	0.06E	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
11	0.0	0.08E	0.00	0.01	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
12	0.0	0.29E	0.0	0.01	0.0	0.0	0.0	0.10	0.00	0.0	0.0	0.0
13	0.0	0.28E	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.07E	0.0
14	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.00	0.22E	0.0	0.34E	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.37E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.00	0.0	0.0	0.02	0.00	0.23E	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.46E	1.10E	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.07M
22	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.13E
23	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.81E	0.0	0.0	0.0	0.0
26	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.40E
27	0.01	0.01	0.0	0.00	0.0	0.0	0.37E	0.0	0.0	0.0	0.0	0.13E
28	0.08E	0.0	0.0	0.0	0.0	0.0	0.09E	0.09E	0.0	0.0	0.0	0.0
29	0.00	0.0	0.0	0.02	0.0	0.0	0.11	0.30	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.16E	0.0	0.00	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.66E	0.0	0.0	0.0	0.0
TOTAL	0.63	1.38	1.33	0.32	0.0	0.02	3.40	4.71	0.47	0.01	0.41	0.60
STA AV	0.63	1.38	1.33	0.32	0.00	0.02	3.40	4.71	0.47	0.01	0.41	0.60

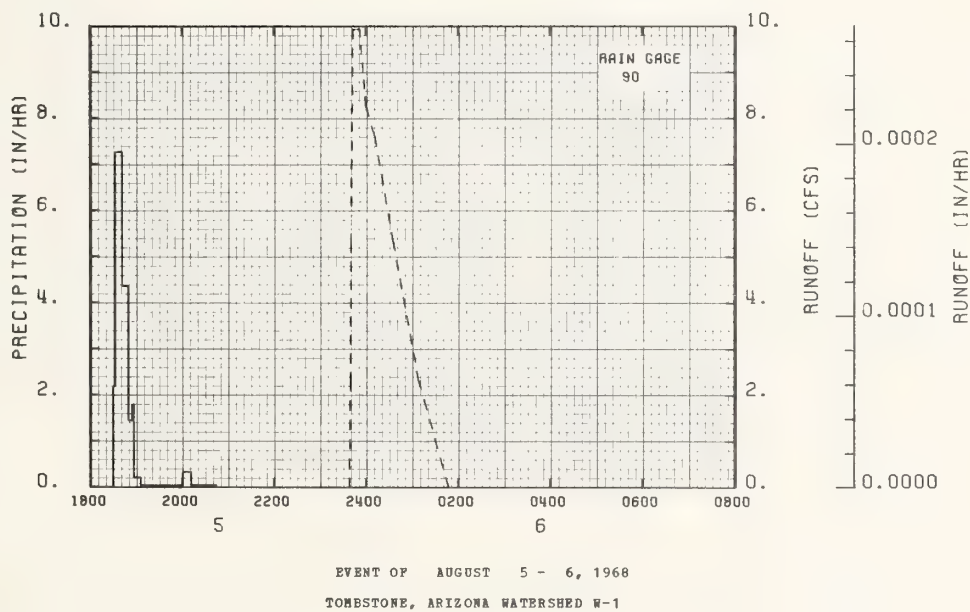
NOTES: Data are Thiessen weighted averages of values from 98 gages. STA AV are for 1968 only. Data for previous years are being reevaluated.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.474E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.128E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.291E	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042E	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.107E	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.629E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.702E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0187	2.9288	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.059	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.054	0.005	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV values based on 1966 and 1968 data, other data are being reevaluated.

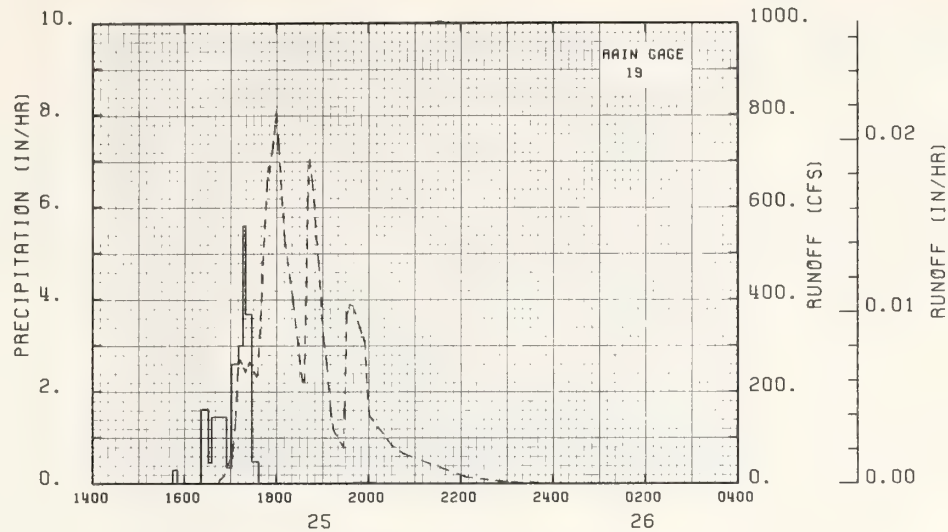
1968 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA WATERSHED W-1						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 5 - 6, 1968												
8- 5	BG 90		8- 5	BG 90			8- 5					
	0.0	0.0		1830	0.0	0.0		2339	0.0	0.0		
				1833	2.2005	0.11		2340	2.310	0.0		
				1842	7.2662	1.20		2341	5.300	0.0		
				1850	4.3501	1.78		2343	9.930	0.0		
				1855	1.4401	1.90		2352	9.930	0.0		
WATERSHED CONDITIONS:												
65% of area in desert shrubs				1857	1.7996	1.96		2400	8.260	0.0		
(Whitethorn, creosotebush and				1906	0.2000	1.99	8- 6	12	7.580	0.0		
tarbush) with 23% cover and				2001	0.0327	2.02		36	5.300	0.0001		
2% grass cover. 35% is in				2012	0.3273	2.08		109	2.310	0.0002		
grassland with approximately				2045	0.0364	2.10		148	0.0	0.0002		
20% grass cover (crown												
spread) and 5% shrub cover.												

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.



1968	SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA WATERSHED W-1						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 25, 1968												
8-25	RG 19		8-25	RG 19			8-25					
	0.0	0.0		1545	0.0	0.0		1645	0.0	0.0		
				1551	0.3000	0.03		1647	8.600	0.0		
				1622	0.0	0.03		1652	16.290	0.0		
				1632	1.6200	0.30		1700	53.260	0.0001		
				1636	0.4500	0.33		1703	56.880	0.0002		
WATERSHED CONDITIONS:												
65% of area in desert shrubs					1655	1.4526	0.79	1704	77.000	0.0002		
(Whitethorn, creosotebush and					1702	0.3429	0.83	1707	134.000	0.0003		
tarbush) with 23% cover and					1711	2.6001	1.22	1710	246.980	0.0006		
2% grass cover. 35% is in					1717	2.9998	1.52	1713	269.240	0.0010		
grassland with approximately					1720	5.5997	1.80	1720	241.600	0.0018		
20% grass cover (crown												
spread) and 5% shrub cover.					1728	3.6751	2.29	1725	263.560	0.0024		
				1737	0.4667	2.36		1734	231.070	0.0034		
				1941	0.0048	2.37		1736	236.300	0.0036		
				2009	0.0214	2.38		1748	653.480	0.0060		
								1749	687.580	0.0064		
								1751	673.720	0.0070		
								1755	730.000	0.0083		
								1758	774.820	0.0093		
								1759	787.840	0.0096		
								1800	807.530	0.0100		
								1803	730.000	0.0110		
								1811	529.490	0.0132		
								1822	395.850	0.0155		
								1834	220.630	0.0172		
								1837	220.630	0.0175		
								1841	615.000	0.0182		
								1843	701.580	0.0188		
								1847	653.480	0.0200		
								1855	477.690	0.0220		
								1902	308.660	0.0232		
								1906	260.000	0.0237		
								1911	158.000	0.0242		
								1915	114.260	0.0245		
								1928	77.000	0.0251		
								1929	158.000	0.0251		
								1932	367.360	0.0255		
								1936	390.060	0.0262		
								1940	384.320	0.0269		
								1949	334.670	0.0284		
								1955	308.660	0.0292		
								2001	147.400	0.0298		
								2030	82.980	0.0313		
								2047	62.750	0.0319		
								2207	12.930	0.0333		
								2255	3.170	0.0335		
								2313	1.510	0.0335		
								2340	0.0	0.0335		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.



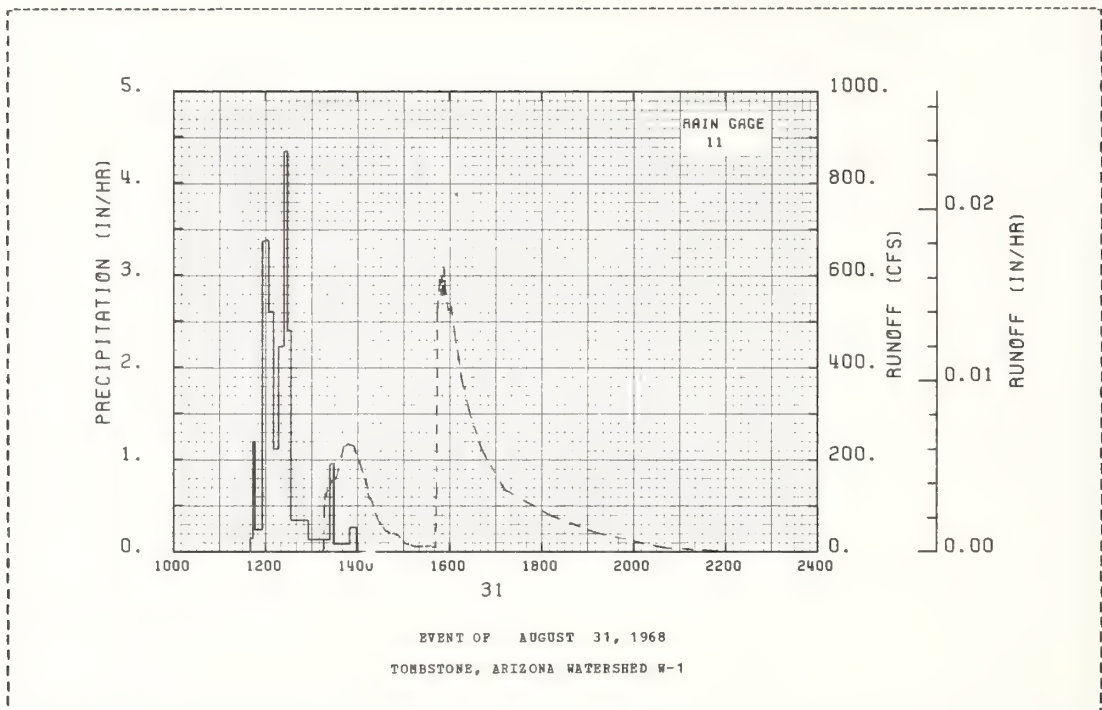
EVENT OF AUGUST 25, 1968
TOMBSTONE, ARIZONA WATERSHED W-1

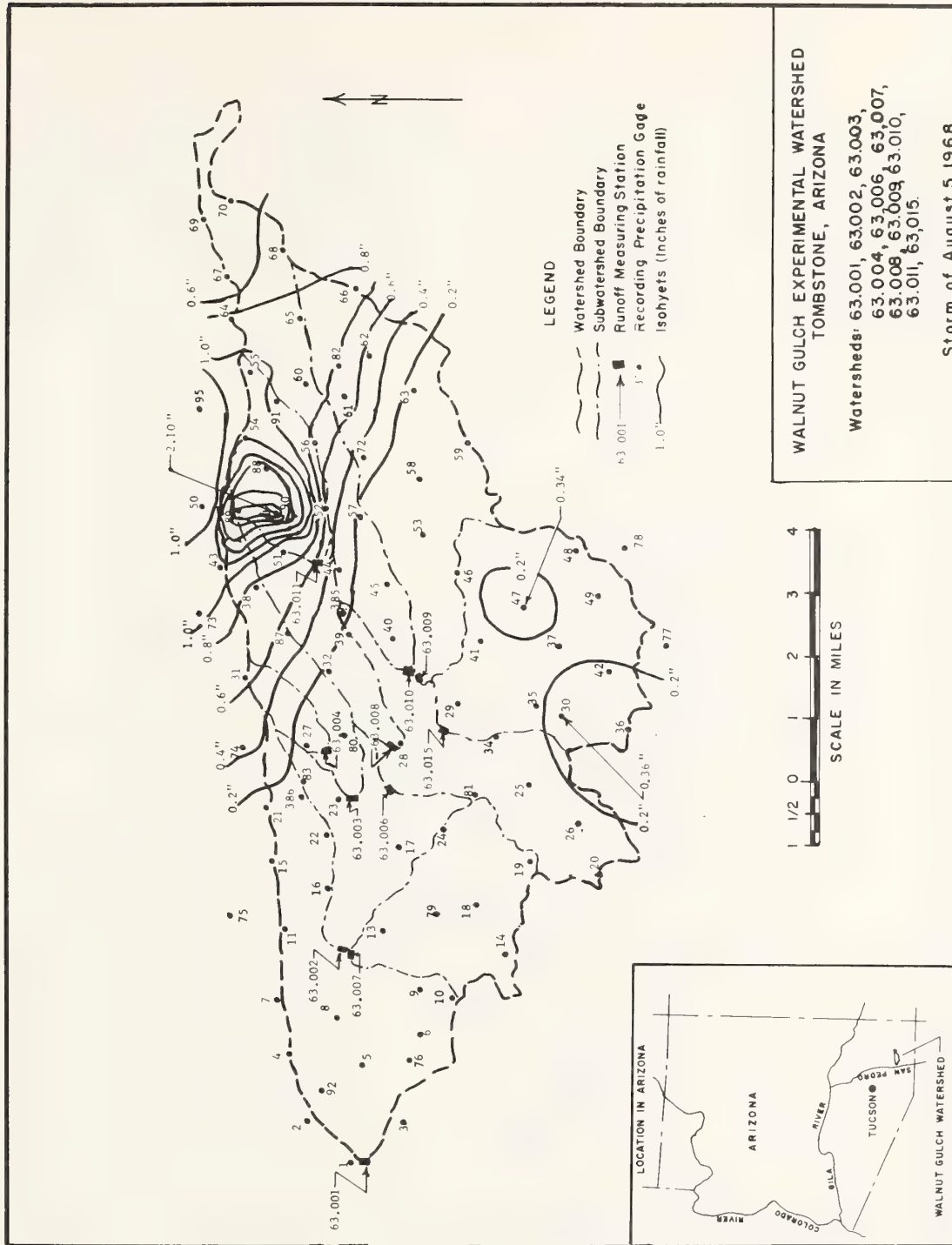
1968 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA WATERSHED W-1						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 31, 1968										
8-31	RG 11 0.01	0.0	8-31	RG 11 1140	0.0	0.0	8-31	1315	0.0	0.0
				1144	0.1500	0.01		1316	6.920	0.0
				1146	1.2000	0.05		1317	92.610	0.0
				1156	0.2400	0.09		1318	124.490	0.0
				1204	3.3750	0.54		1327	155.350	0.0006
WATERSHED CONDITIONS: 65% of area in desert shrubs (Whitethorn, creosotebush and tarbush) with 23% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.				1210	2.6000	0.80		1332	158.650	0.0009
				1217	1.1143	0.93		1342	229.280	0.0018
				1224	2.2286	1.19		1347	233.610	0.0023
				1228	4.3500	1.48		1355	229.280	0.0031
				1233	2.4000	1.68		1405	181.570	0.0040
				1256	0.3391	1.81		1412	145.670	0.0045
				1324	0.1286	1.87		1415	116.000	0.0047
				1329	0.9600	1.95		1417	116.000	0.0048
				1350	0.0857	1.98		1427	67.190	0.0052
				1359	0.2667	2.02		1437	44.040	0.0054
								1452	35.780	0.0057
								1503	17.210	0.0058
								1514	10.630	0.0059
								1522	10.630	0.0059
								1532	12.890	0.0060
								1542	9.250	0.0060
								1543	134.000	0.0060
								1544	523.750	0.0061
								1547	590.560	0.0069
								1549	556.520	0.0074
								1550	599.270	0.0076
								1552	556.520	0.0081
								1553	616.940	0.0084
								1554	573.380	0.0086
								1558	523.750	0.0096
								1602	531.830	0.0105
								1607	467.060	0.0116
								1612	419.710	0.0126
								1616	370.000	0.0133
								1625	306.590	0.0146

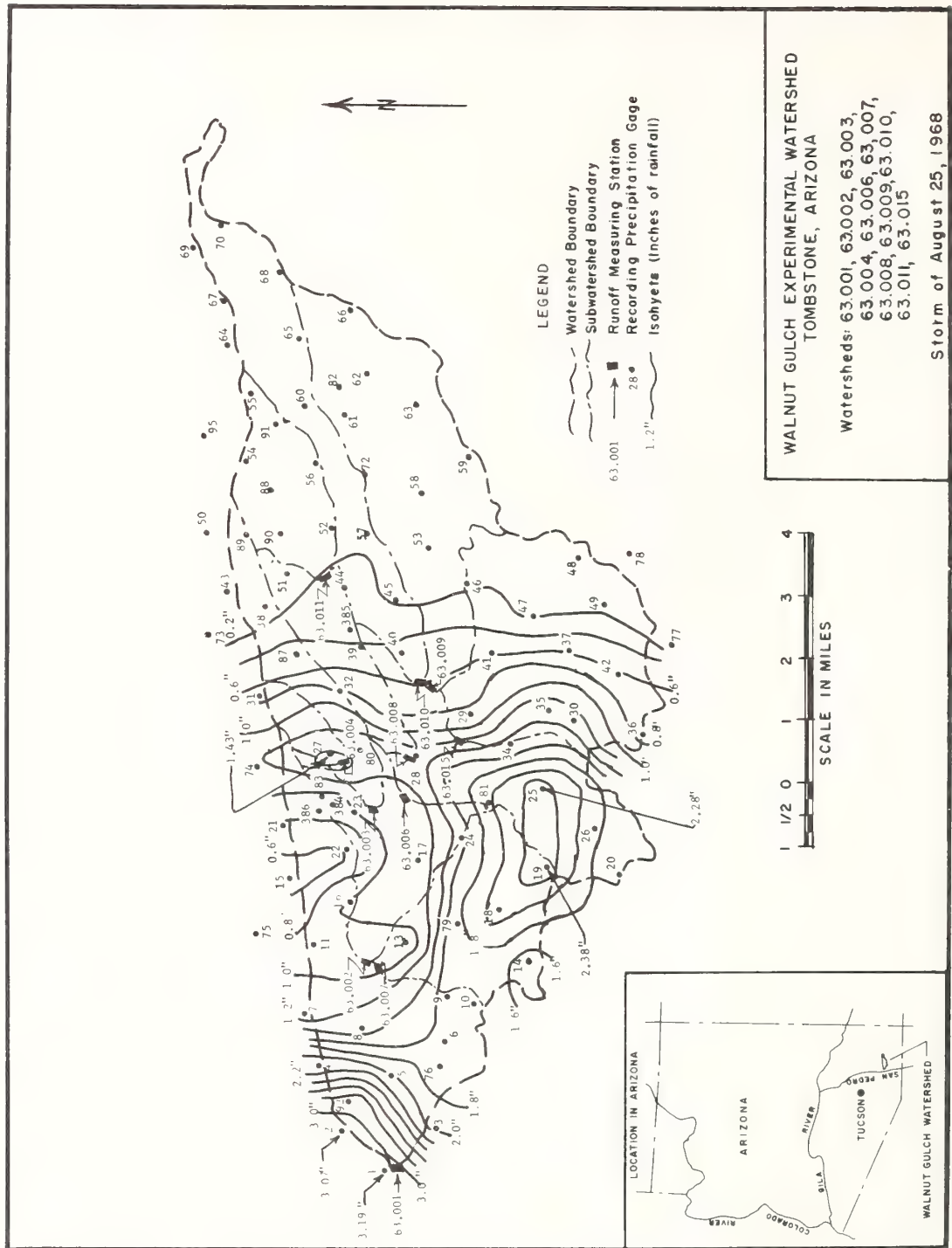
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.

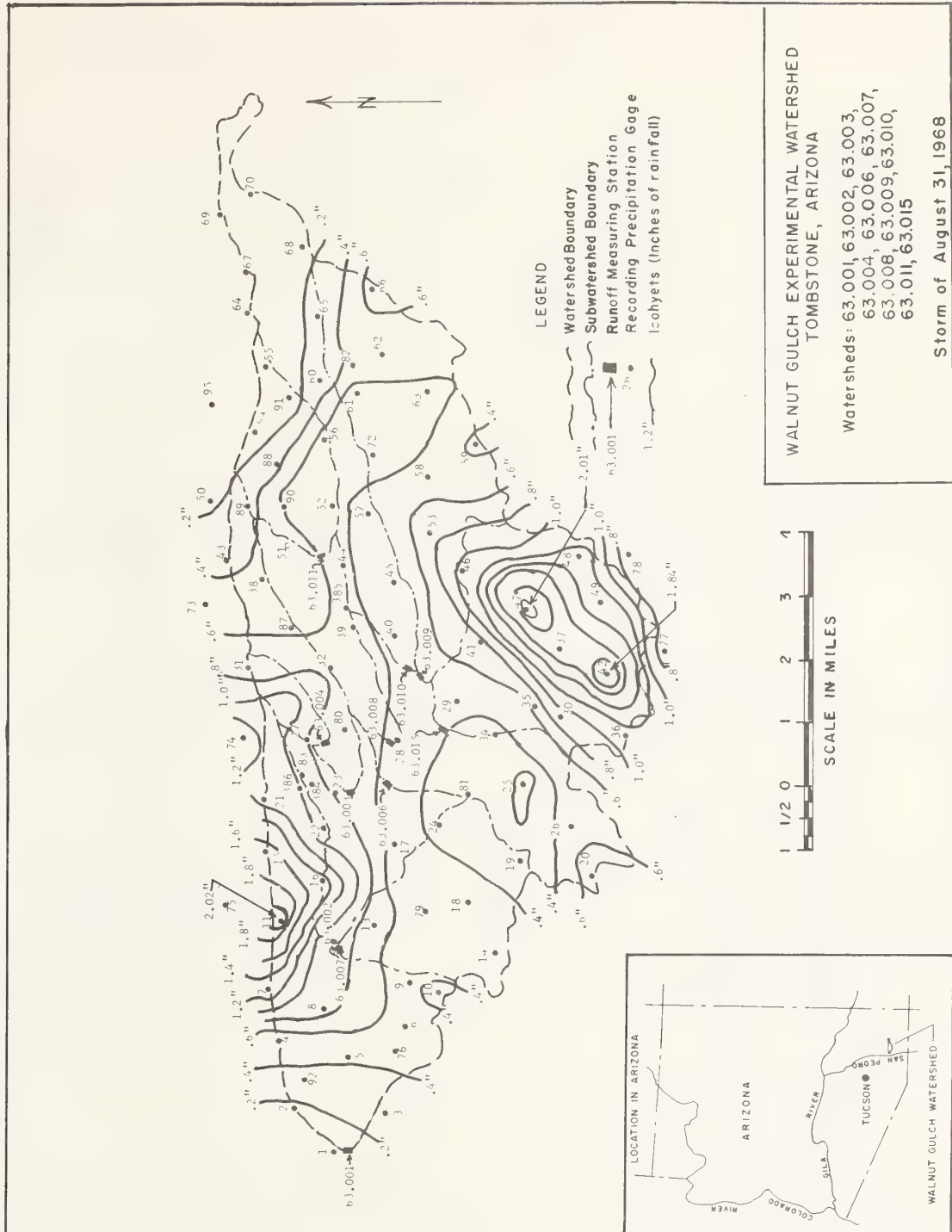
1968 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA WATERSHED W-1				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 31, 1968 (CONTINUED)										
							8-31	1642	220.840	0.0166
								1712	134.000	0.0190
								1813	77.000	0.0219
								1912	40.100	0.0234
								2038	8.600	0.0243
								2144	1.260	0.0244
								2200	0.0	0.0244

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269. For isohyetal map of event, see following pages.









TOMBSTONE, ARIZONA WATERSHED W-2

LOCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 28100.00 acres 43.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED W-2																							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																							
1968	P	0.62	1.46	1.27	0.31	0.0	0.02	3.33	4.53	0.51	0.01	0.44	0.64	13.14																							
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.062	0.000	0.0	0.0	0.0	0.063																							
STA AV	P	0.63	1.46	1.27	0.31	0.00	0.02	3.33	4.53	0.51	0.01	0.44	0.64	13.14																							
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.071	0.005	0.0	0.0	0.0	0.142																							
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																					
Maximum Discharge Date Rate 1 Hour Date Vol. 2 Hours Date Vol. Maximum Volume for Selected Time Interval 6 Hours Date Vol. 12 Hours Date Vol. 1 Day Date Vol. 2 Days Date Vol. 8 Days Date Vol.																																					
1968		8-31	0.031	8-31	0.023	8-31	0.035	8-31	0.043	8-31	0.045	8-31	0.046	8-30	0.046	8-24	0.060																				
MAXIMUMS FOR PERIOD OF RECORD																																					
		7-26	0.160	7-26	0.130	7-26	0.170	7-26	0.210	9- 9	0.240	9- 9	0.240	9- 9	0.240	9- 9	0.430																				
		1959		1959		1969		1959		1964		1964		1964		1964																					

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitethorn, creosotebrush, tarbush and mertonia), with a 25% crown spread cover. 45% of area supports grass (black grama, curly mesquite, tobosa, blue grama and sideoats grama), with a basal area of 2.5%, and a shrub cover of approximately 6% crown spread. For topographic, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1954. Monthly totals are Thiessen weighted averages from 84 gages. Station averages are based on one year only, previously published data are being reevaluated. Runoff Data: Records began July 1959. Station averages are for 1966 and 1968. Temperature Data: See table of daily maximum and minimum value included for Watershed 63.001.

1968 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA WATERSHED W-2													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.21E	0.00	0.0	0.0	0.0														
	2	0.0	0.0	0.07	0.04	0.0	0.0	0.52E	0.16E	0.10	0.00	0.0	0.0														
	3	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.19E	0.21	0.00	0.0	0.0														
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.04E	0.0	0.0	0.0	0.0														
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.67E	0.35	0.0	0.0	0.0	0.0														
	6	0.0	0.0	0.01	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.0	0.0														
	7	0.34M	0.0	0.05E	0.0	0.0	0.0	0.00	0.25E	0.0	0.0	0.0	0.0														
	8	0.11M	0.0	0.07E	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0														
	9	0.0	0.41E	0.46M	0.18E	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0														
	10	0.07S	0.33E	0.57M	0.04E	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0														
	11	0.0	0.09E	0.00	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	12	0.0	0.29E	0.0	0.01	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0														
	13	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.07E														
	14	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.19E	0.0	0.0	0.37E														
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0														
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0														
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	0.0	0.0														
	19	0.0	0.0	0.00	0.0	0.0	0.02	0.00	0.14E	0.0	0.0	0.0	0.0														
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.50E	1.12E	0.0	0.0	0.0	0.0														
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0														
	23	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0														
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0														
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.56E	0.0	0.0	0.0	0.0														
	26	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0														
	27	0.01	0.01	0.0	0.00	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0														
	28	0.09E	0.0	0.0	0.0	0.0	0.0	0.07E	0.11E	0.0	0.0	0.0	0.0														
	29	0.00	0.0	0.0	0.03	0.0	0.0	0.13	0.36	0.0	0.0	0.0	0.0														
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.14	0.0	0.00	0.0	0.0														
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.65	0.0	0.0	0.0	0.0														
	TOTAL	0.62	1.46	1.27	0.31	0.0	0.02	3.33	4.53	0.51	0.01	0.44	0.64														
	STA AV	0.63	1.46	1.27	0.31	0.00	0.02	3.33	4.53	0.51	0.01	0.44	0.64														

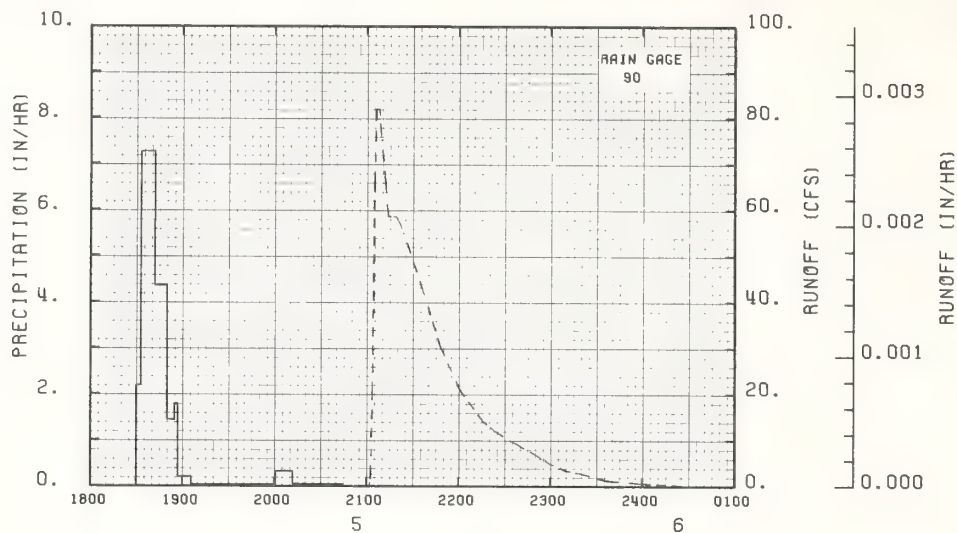
NOTES: Data are Thiessen weighted averages of values from 84 gages. STA AV are for 1968 only. Data for previous years are being reevaluated.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.482E	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	1.049E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.382E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.695E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.134	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.132	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.688E	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.085	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0338	2.3672	0.0161	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.062	0.000	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.065	0.071	0.005	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000845. STA AV are for 1966 and 1968.

1968			SELECTED RUNOFF EVENT										TOMBSTONE, ARIZONA WATERSHED W-2									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF															
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.												
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)												
EVENT OF AUGUST 5 - 6, 1968																						
RG 90			RG 90																			
8- 5	0.0	0.0	8- 5	1830	0.0	0.0	8- 5	2102	0.0	0.0												
				1833	2.2005	0.11		2103	2.590	0.0												
				1842	7.2662	1.20		2104	20.820	0.0												
				1850	4.3501	1.78		2105	66.050	0.0												
				1855	1.4401	1.90		2106	81.800	0.0												
WATERSHED CONDITIONS:				1857	1.7996	1.96		2108	81.800	0.0001												
Oak woodland and desert shrubs				1906	0.2000	1.99		2109	77.060	0.0001												
(Whitethorn, creosotebush,				2001	0.0327	2.02		2112	66.050	0.0002												
tarbush, and mortonia) with				2012	0.3273	2.08		2114	58.360	0.0003												
a crown spread of 25% cover,				2045	0.0364	2.10		2119	58.360	0.0005												
occupy 55% of the area. The																						
remaining 45% supports grass																						
(black grama, curly mesquite,								2122	56.750	0.0006												
tobosa, blue grama, and								2137	42.200	0.0010												
sideoats grama) with a								2148	30.310	0.0012												
basal area of 2.5% cover,								2201	20.820	0.0014												
and a shrub cover of								2216	14.050	0.0016												
approximately 6% crown spread.																						
								2224	11.810	0.0017												
								2239	8.870	0.0018												
								2251	6.600	0.0019												
								2300	4.740	0.0019												
								2310	3.350	0.0019												
								2320	2.590	0.0019												
								2337	1.110	0.0019												
								2400	0.490	0.0019												
								8- 6	25	0.0	0.0019											

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.



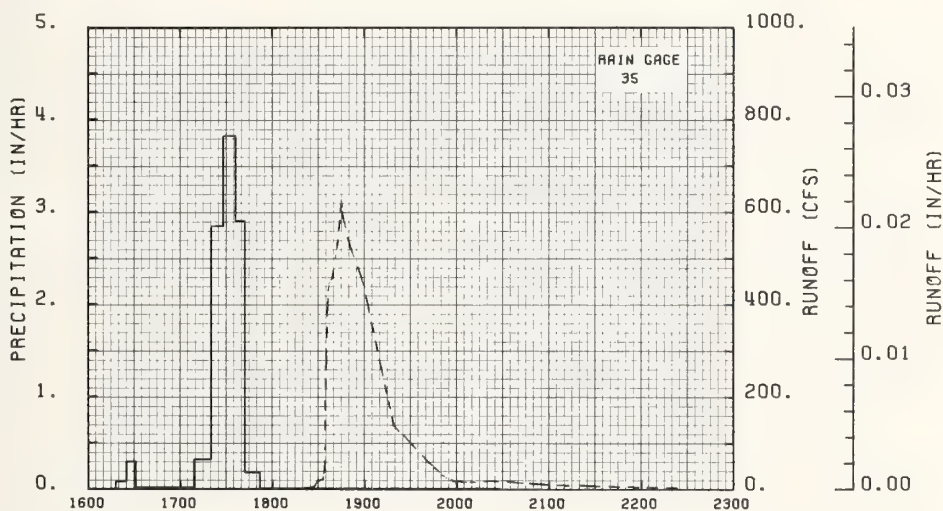
EVENT OF AUGUST 5 - 6, 1968
TOMBSTONE, ARIZONA WATERSHED W-2

1968 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968											
8-25	RG 35 0.0	0.0	8-25	RG 35 1618	0.0	0.0	8-25	1723	0.0	0.0	
				1625	0.0857	0.01		1736	0.490	0.0	
				1631	0.3000	0.04		1748	1.000	0.0	
				1709	0.0158	0.05		1754	1.110	0.0	
				1720	0.3273	0.11		1800	0.770	0.0	
WATERSHED CONDITIONS: Oak woodland and desert shrubs (Whitethorn, creosotebush, tarbush, and mortonia) with a crown spread of 25% cover, occupy 55% of the area. The remaining 45% supports grass (black grama, curly mesquite, tobosa, blue grama, and sidecoats grama) with a basal area of 2.5% cover, and a shrub cover of approximately 6% crown spread.				1728	2.8500	0.49		1808	1.230	0.0	
				1736	3.8251	1.00		1812	2.240	0.0	
				1742	2.8998	1.29		1816	1.490	0.0	
				1752	0.1800	1.32		1821	2.590	0.0	
				2028	0.0038	1.33		1824	1.630	0.0	
								1826	4.740	0.0	
								1828	8.870	0.0	
								1829	17.200	0.0	
								1831	20.000	0.0	
								1833	21.670	0.0	
								1834	42.200	0.0	
								1835	281.100	0.0001	
								1836	400.000	0.0003	
								1837	445.880	0.0005	
								1839	457.830	0.0011	
								1842	520.590	0.0020	
								1845	624.280	0.0030	
								1846	588.410	0.0033	
								1851	520.590	0.0049	
								1858	457.830	0.0069	
								1902	400.000	0.0079	
								1911	260.280	0.0096	
								1919	137.900	0.0106	
								1929	103.090	0.0113	
								1942	56.750	0.0119	
								1947	42.200	0.0120	
								1953	24.350	0.0121	
								1958	17.880	0.0122	
								2002	15.900	0.0122	
								2005	15.270	0.0122	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF AUGUST 25, 1968 (CONTINUED)									
				8-25				2011	15.900
								2021	18.570
								2039	14.050
								2052	11.280
								2127	6.600
								2223	2.590
								2317	0.880
								2400	0.330
									0.0123
									0.0124
									0.0126
									0.0127
									0.0129
									0.0131
									0.0132
									0.0132

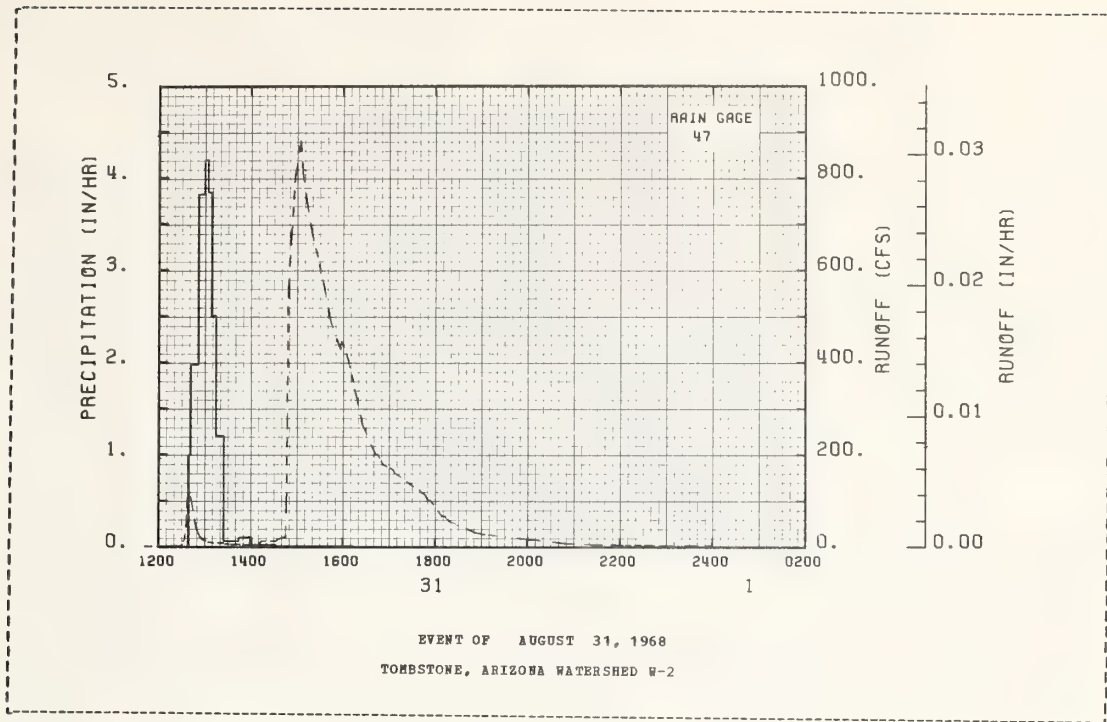
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 25, 1968
TOMBSTONE, ARIZONA WATERSHED W-2

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 31, 1968										
8-31	RG 47 0.0	0.000	8-31	RG 47 1239	0.0	0.0	8-31	1143	0.290	0.0
				1242	1.0000	0.05		1208	0.460	0.0
				1252	1.9800	0.38		1216	1.600	0.0
				1300	3.8250	0.89		1218	1.500	0.0
				1304	4.2000	1.17		1223	1.600	0.0
WATERSHED CONDITIONS: Oak woodland and desert shrubs (Whitethorn, creosotebush, tarbush, and mertonia) with a crown spread of 25% cover, occupy 55% of the area. The remaining 45% supports grass (black grama, curly mesquite, tobosa, blue grama, and sideoats grama) with a basal area of 2.5% cover, and a shrub cover of approximately 6% crown spread.				1309	3.8400	1.49		1225	1.800	0.0
				1315	2.5000	1.74		1231	4.160	0.0
				1325	1.2000	1.94		1234	16.730	0.0
				1345	0.0600	1.96		1235	20.000	0.0
				1402	0.1059	1.99		1237	55.300	0.0
				1433	0.0194	2.00		1238	100.490	0.0001
				1614	0.0059	2.01		1240	122.060	0.0002
								1243	100.490	0.0004
								1250	38.000	0.0007
								1254	22.450	0.0008
								1258	15.260	0.0008
								1310	8.120	0.0009
								1322	8.120	0.0010
								1330	5.400	0.0010
								1338	5.400	0.0010
								1343	4.830	0.0010
								1355	3.470	0.0010
								1400	3.680	0.0010
								1405	3.340	0.0010
								1408	3.610	0.0010
								1411	3.610	0.0010
								1413	10.400	0.0010
								1415	12.640	0.0010
								1433	12.640	0.0011
								1437	18.310	0.0011
								1442	21.200	0.0012
								1446	21.200	0.0012
								1447	100.490	0.0012
								1448	276.840	0.0013
								1449	560.000	0.0016
								1453	679.220	0.0031
								1458	810.090	0.0053
								1505	879.900	0.0088
								1508	810.090	0.0103
								1513	743.200	0.0125
								1520	679.220	0.0154
								1536	560.000	0.0212
								1543	493.900	0.0234
								1557	426.780	0.0272
								1558	444.510	0.0274
								1607	403.810	0.0296
								1618	324.240	0.0320
								1626	263.480	0.0334
								1643	198.690	0.0357
								1646	198.690	0.0361
								1653	176.600	0.0369
								1706	166.090	0.0382
								1708	159.290	0.0384
								1748	110.960	0.0416
								1751	100.490	0.0418
								1754	100.490	0.0420
								1809	65.570	0.0427
								1813	65.570	0.0429
								1818	55.300	0.0431
								1853	29.510	0.0440
								1900	26.520	0.0441
								1916	23.760	0.0443
								2003	15.260	0.0448
								2049	6.990	0.0451
								2128	4.160	0.0452
								2200	3.470	0.0453
								2213	3.210	0.0453
								2223	3.080	0.0453
								2238	2.740	0.0453
								2300	2.110	0.0453
								2308	2.010	0.0453
								2333	1.900	0.0453
								2400	1.700	0.0453

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000352. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise County; 1.3 miles north of Tombstone; tributary of Walnut Gulch; San Pedro River, Gila River, Colorado River Basin.

AREA: 2220.00 acres 3.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										TOMBSTONE, ARIZONA WATERSHED W-3									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	0.56	1.53	1.13	0.33	0.0	0.03	2.43	4.07	0.67	0.0	0.38	0.59	11.72					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.035	0.0	0.0	0.0	0.0	0.036					
STA AV	P	0.58	0.40	0.43	0.16	0.07	0.25	3.59	3.00	1.28	0.47	0.44	0.79	11.47					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.103	0.027	0.0	0.0	0.0	0.158					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		8-25	0.063	8-25	0.022	8-25	0.023	8-31	0.023	8-31	0.023	8-30	0.023	8-29	0.023	8-23	0.034		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-16	0.580	8-17	0.240	8-17	0.280	8-17	0.280	8-17	0.280	8-17	0.280	8-17	0.280	8-14	0.420		
		1958		1961		1961		1961		1961		1961		1961		1958			

NOTES: Watershed conditions: Vegetative cover; Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. No. 1226. Precipitation Data: Records began 1958. Monthly totals are Thiessen weighted averages of 13 gauges. Station averages based on record period 1955-68. Runoff Data: Records began 1958. Station averages based on record period 1958-68. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED W-3												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.00	0.0	0.0	0.0												
2	0.0	0.0	0.0	0.01	0.06	0.0	0.0	0.57E	0.30	0.12	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.33	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.04E	0.0	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67E	0.50	0.0	0.0	0.0	0.0												
6	0.01M	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0												
7	0.38M	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0												
8	0.07M	0.00	0.0	0.02M	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0												
9	0.00S	0.38	0.50M	0.19	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0												
10	0.06S	0.30	0.53M	0.00	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0												
11	0.0	0.06	0.0	0.01	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0												
12	0.0	0.44	0.0	0.04	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.00	0.0												
13	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.09	0.0												
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.29	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0												
18	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.35E	0.00	0.0	0.0	0.0	0.0												
19	0.0	0.0	0.00	0.0	0.0	0.0	0.03	0.00	0.11	0.0	0.0	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31E	1.05	0.0	0.0	0.0	0.00M												
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.05M												
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.00	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.01												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.40												
27	0.00	0.00	0.0	0.0	0.00	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.14												
28	0.03	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0												
29	0.00	0.0	0.0	0.0	0.03	0.0	0.0	0.00	0.14	0.0	0.0	0.0	0.0												
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.03	0.0	0.0	0.0	0.0												
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0												
TOTAL		0.54	1.53	1.13	0.33	0.0	0.03	2.43	4.07	0.67	0.0	0.38	0.59												
STA AV		0.58	0.40	0.43	0.16	0.07	0.25	3.59	3.00	1.28	0.47	0.44	0.79												

NOTES: Data are Thiessen weighted averages from 13 rain gauges. STA AV are based on record period 1955-68.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.029E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020E	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.012E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.027E	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.162E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.044E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.069E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0036	0.1049	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.035	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.103	0.027	0.0	0.0	0.0

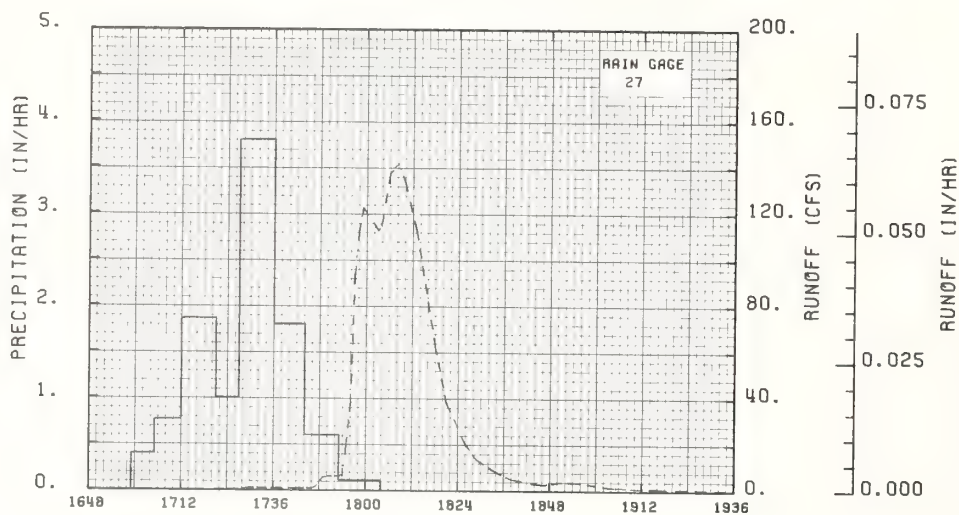
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.010721. STA AV based on record period 1955-1968.

1968 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-3											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968											
RG	27		RG	27							
8-25	0.0	0.0	8-25	1659	0.0	0.0	8-25	1721	0.0	0.0	
				1705	0.4000	0.04		1722	0.160	0.0	
				1712	0.7714	0.13		1726	0.270	0.0	
				1721	1.8667	0.41		1729	0.860	0.0	
				1727	0.9999	0.51		1730	0.930	0.0	
WATERSHED CONDITIONS:											
Vegetative Cover: Desert				1736	3.8002	1.08	1733	0.930	0.0		
shrubs (whitethorn, creosote-				1744	1.8000	1.32	1737	0.860	0.0		
bush, and tarbrush) with				1753	0.6000	1.41	1742	0.860	0.0		
a crown spread approximately				1804	0.1091	1.43	1743	1.000	0.0		
30% and grasses with basal							1746	1.000	0.0		
area of approximately 0.8%							1747	1.660	0.0		
cover, occupy 55% of the area.							1749	5.890	0.0001		
Grasses (black grama, curly							1751	6.280	0.0002		
mesquite, tobosa) with a							1753	6.280	0.0003		
basal area of 2.6% cover							1754	6.690	0.0003		
and shrub cover of 2% occupy							1755	20.000	0.0004		
the remaining 45% of the							1756	37.890	0.0006		
area.							1757	93.630	0.0012		
							1758	112.370	0.0019		
							1759	122.460	0.0027		
							1803	112.370	0.0062		
							1804	116.350	0.0072		
							1806	137.420	0.0090		
							1808	141.870	0.0112		
							1810	133.050	0.0131		
							1813	112.370	0.0159		
							1818	62.200	0.0191		
							1821	37.890	0.0202		
							1826	20.000	0.0213		
							1829	13.230	0.0217		
							1834	7.980	0.0221		
							1838	4.810	0.0223		
							1846	2.510	0.0225		
							1850	3.850	0.0226		
							1854	3.850	0.0227		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-3								
ANTECEDENT CONDITIONS			RAINFALL			Acc. (inches)	RUNOFF				Acc. (inches)
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)		Date Mo-Day	Time of Day	Rate (cfs)		
EVENT OF AUGUST 25, 1968 (CONTINUED)											
							8-25	1904	1.310	0.0229	
								1906	1.310	0.0229	
								1911	0.730	0.0229	
								1916	0.730	0.0229	
								1934	0.210	0.0230	
								2046	0.0	0.0231	

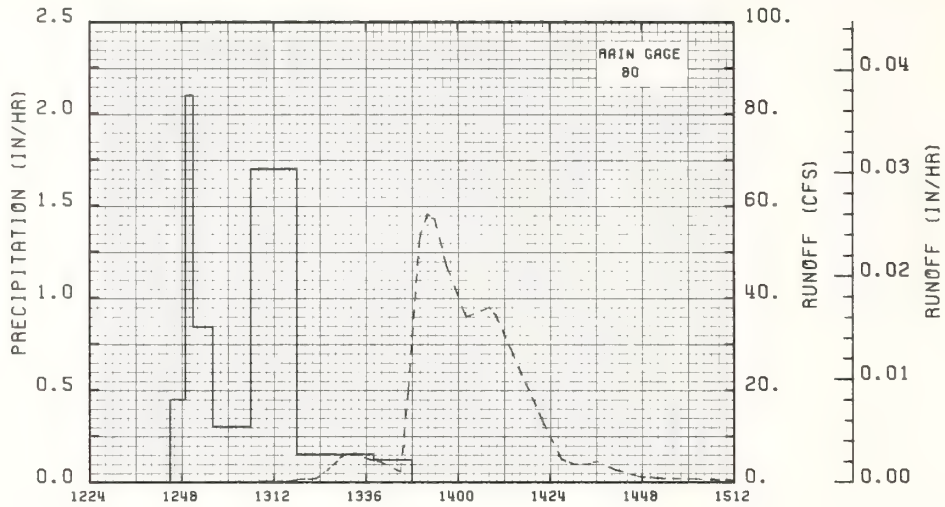
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 25, 1968
TOMBSTONE, ARIZONA WATERSHED W-3

1968			TOMBSTONE, ARIZONA WATERSHED W-3									
SELECTED RUNOFF EVENT												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 31, 1968												
RG 80			RG 80									
8-31	0.0	0.0	8-31	1245	0.0	0.0	8-31	1256	0.0	0.0		
				1249	0.4500	0.03		1259	0.050	0.0		
				1251	2.1000	0.10		1302	0.050	0.0		
				1256	0.8400	0.17		1303	0.160	0.0		
				1306	0.3000	0.22		1311	0.160	0.0		
WATERSHED CONDITIONS:												
Vegetative Cover: Desert shrubs (whitethorn, creosote-			1318	1.7000	0.56		1314	0.100	0.0			
bush, and tarbrush) with a			1338	0.1500	0.61		1316	0.100	0.0			
crown spread approximately			1348	0.1200	0.63		1318	0.590	0.0			
30% and grasses with basal							1319	0.660	0.0			
area of approximately 0.8%							1322	0.730	0.0			
cover, occupy 55% of the							1323	0.860	0.0			
area. Grasses (black grama,							1326	2.750	0.0			
curly mesquite, tobosa) with							1328	4.160	0.0001			
a basal area of 2.6% cover							1330	5.890	0.0002			
and shrub cover of 2% occupy							1333	6.280	0.0003			
the remaining 45% of the												
area.							1337	4.810	0.0005			
							1340	4.160	0.0006			
							1345	2.060	0.0007			
							1347	20.000	0.0009			
							1350	52.940	0.0017			
							1352	58.130	0.0025			
							1354	56.810	0.0034			
							1357	46.820	0.0046			
							1402	35.820	0.0061			
							1408	37.890	0.0076			
							1410	35.820	0.0083			
							1414	28.170	0.0092			
							1422	13.230	0.0104			
							1427	4.810	0.0107			
							1430	3.850	0.0108			
							1434	3.850	0.0109			
							1436	4.480	0.0110			
							1441	2.510	0.0111			
							1447	1.150	0.0112			
							1452	0.790	0.0112			
							1502	0.590	0.0113			
							1512	0.340	0.0113			
							1520	0.210	0.0113			
							1540	0.100	0.0113			
							1645	0.0	0.0113			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 31, 1968
TOMBSTONE, ARIZONA WATERSHED W-3

TOMBSTONE, ARIZONA W-4

LOCATION: Cochise County, Arizona; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 560.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA W-4										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual										
1968	P	0.64	1.33	1.15	0.35	0.0	0.05	2.93	4.14	0.50	0.0	0.37	0.58	12.02										
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.042	0.0	0.0	0.0	0.0	0.042										
STA AV	P	0.53	0.39	0.44	0.16	0.07	0.26	3.49	3.08	1.29	0.46	0.43	0.77	11.36										
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.440	0.132	0.018	0.0	0.0	0.0	0.590										
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																								
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval																
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours	Date	12 Hours	Date	1 Day	Date	2 Days	Date	8 Days							
									Vol.		Vol.		Vol.		Vol.		Vol.							
1968		8-31	0.038	8-31	0.022	8-31	0.026	8-31	0.027	8-31	0.027	8-30	0.027	8-29	0.027	8-23	0.041							
MAXIMUMS FOR PERIOD OF RECORD																								
		7-19	2.250	7-19	0.980	7-19	1.100	7-19	1.100	7-19	1.100	7-19	1.630	7-19	1.630	7-19	4.370							
		1955		1955		1955		1955		1955		1955		1955		1955								

NOTES: Watershed conditions: Vegetative cover: 100% dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of approximately 38% and an understory of grasses with approximately 0.6% basal cover. For topography, geological, and vegetative maps, see pages 63.1-3, 63.1-4 and 63.1-5 respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Record began July 1954. Monthly totals are Thiessen weighted averages of three rain gages. STA AV values are based on record period 1955-1968. Runoff Data: Records began Jan. 1955. STA AV based on 12 yr (1955-68) and (1961-68) record period. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA W-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0			
2	0.0	0.0	0.0	0.06	0.0	0.0	0.80	0.14	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.28	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.04	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.30	0.0	0.0	0.0	0.0			
6	0.0	0.0	0.06	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0			
7	0.42M	0.0	0.01	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0			
8	0.09M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.41	0.51M	0.21	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0			
10	0.09S	0.26	0.55M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.38	0.0	0.03	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0			
13	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.25	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.01	0.0	0.0	0.05	0.00	0.11	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	1.03	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.06	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.00	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0			0.41
28	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.12
29	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0			0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.01	0.0	0.0	0.0	0.0			0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0			0.0
TOTAL	0.64	1.33	1.15	0.35	0.0	0.05	2.93	4.14	0.50	0.0	0.37	0.58			
STA AV	0.53	0.39	0.44	0.16	0.07	0.26	3.49	3.08	1.29	0.46	0.43	0.77			

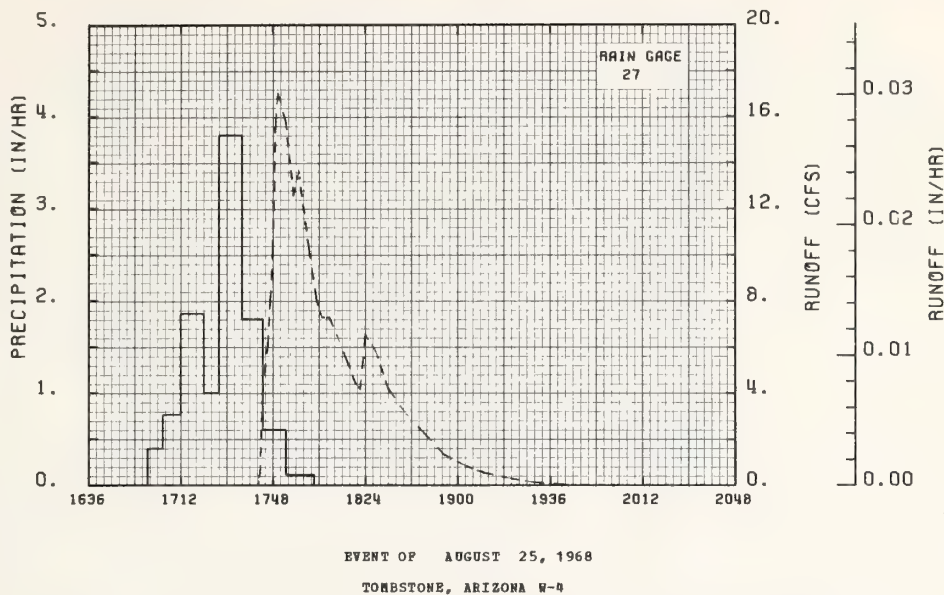
NOTES: Data are Thiessen weighted averages of values from three gages. STA AV are for record period 1955-1968.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.343E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.643E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0001	0.0318	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.042	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.440	0.132	0.018	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.042502. STA AV based on record period (1955-58) and (1961-68).

1968 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-4											
ANTECEDENT CONDITIONS			RAINFALL					RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968											
8-25	RG 27 0.0	0.0	8-25	RG 27 1659	0.0	0.0	8-25	1742	0.0	0.0	
				1705	0.4000	0.04		1743	0.530	0.0	
				1712	0.7714	0.13		1744	3.900	0.0001	
				1721	1.8667	0.41		1746	6.170	0.0004	
				1727	0.9999	0.51		1747	8.040	0.0006	
WATERSHED CONDITIONS: 100% of area dominated by desert shrubs (whitethorn, creosotebush and tarbush) with a crown spread of approximately 33% and an understory of grasses with approximately 0.6% basal cover.				1736	3.8002	1.08		1748	10.260	0.0009	
				1744	1.8000	1.32		1749	15.740	0.0013	
				1753	0.6000	1.41		1750	17.610	0.0018	
				1804	0.1091	1.43		1753	15.740	0.0033	
								1756	12.550	0.0045	
								1758	13.660	0.0053	
								1802	10.260	0.0067	
								1805	8.040	0.0075	
								1807	7.260	0.0079	
								1810	7.260	0.0086	
								1817	5.350	0.0099	
								1820	4.450	0.0103	
								1822	4.170	0.0105	
								1824	6.520	0.0108	
								1828	5.830	0.0115	
								1833	4.170	0.0122	
								1840	3.050	0.0129	
								1847	2.230	0.0134	
								1855	1.290	0.0138	
								1903	0.820	0.0140	
								1910	0.530	0.0141	
								1921	0.260	0.0142	
								1929	0.120	0.0142	
								1942	0.0	0.0142	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771. For isohyetal map of event, see information included for Watershed 63.001.

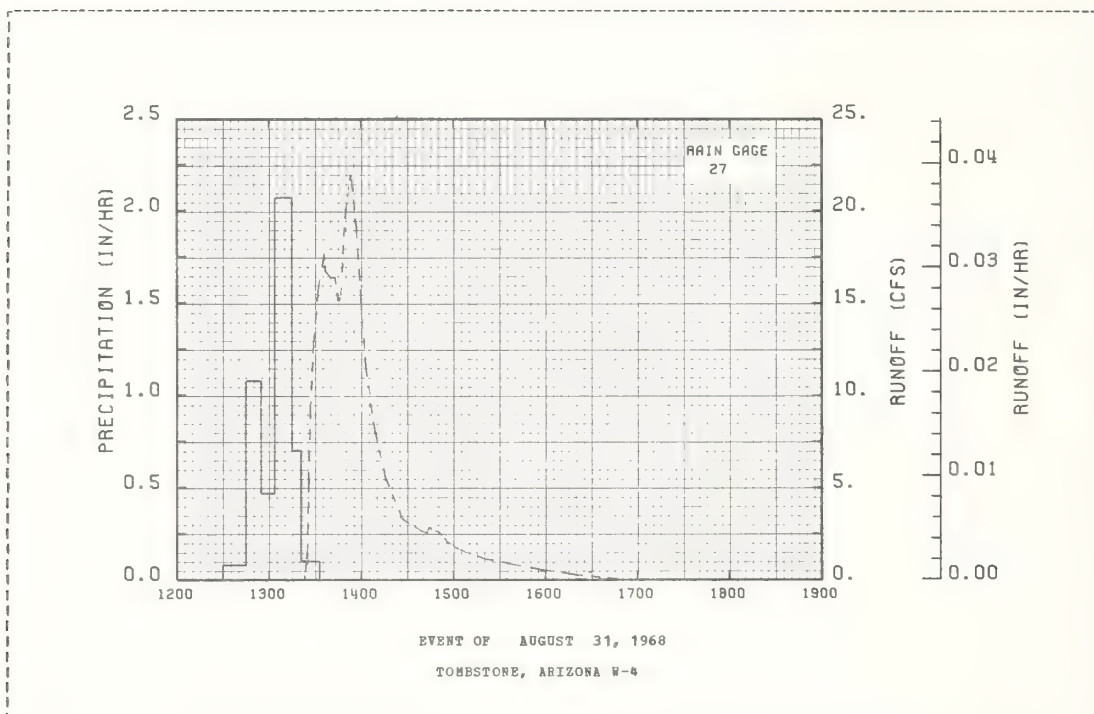


1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-4						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
EVENT OF AUGUST 31, 1968									
8-31	RG 27 0.0	0.0	8-31	RG 27			8-31		
				1230	0.0	0.0	1323	0.0	0.0
				1245	0.0800	0.02	1324	0.680	0.0
				1255	1.0800	0.20	1325	1.410	0.0
				1304	0.4667	0.27	1326	5.350	0.0001
				1315	2.0727	0.65	1327	9.330	0.0004
				1321	0.7000	0.72	1329	12.820	0.0010
				1333	0.1000	0.74	1332	15.740	0.0023
							1336	17.660	0.0043
							1337	16.680	0.0048
							1340	16.360	0.0063
							1343	16.360	0.0078
							1345	15.120	0.0088
							1346	15.120	0.0092
							1347	15.740	0.0096
							1350	20.090	0.0112
							1352	21.180	0.0123
							1353	21.930	0.0130
							1354	21.560	0.0136
							1357	19.020	0.0154
							1400	15.120	0.0169
							1403	11.500	0.0180
							1409	8.040	0.0198
							1416	5.500	0.0212
							1427	3.280	0.0226
							1439	2.620	0.0236
							1443	2.520	0.0239
							1444	2.830	0.0240
							1451	2.520	0.0246
							1456	2.050	0.0249
							1502	1.710	0.0252
							1506	1.560	0.0254
							1521	1.110	0.0260
							1538	0.820	0.0265
							1557	0.530	0.0269
							1619	0.260	0.0272

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-4					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
							Rate	Acc.
							(cfs)	(inches)
EVENT OF AUGUST 31, 1968 (CONTINUED)								
							1647	0.0
								0.0273

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771. For isohyetal map of event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA W-6

LOCATION: Cochise County; 3/4 mile north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 23500.00 acres 36.70 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA W-6				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	0.64	1.49	1.26	0.30	0.0	0.02	3.35	4.57	0.48	0.01	0.46	0.67	13.24				
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.062	0.001	0.0	0.0	0.0	0.066				
STA AV	P	0.64	1.49	1.26	0.30	0.00	0.02	3.35	4.57	0.48	0.01	0.46	0.67	13.24				
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.061	0.011	0.0	0.0	0.0	0.153				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	8-25	0.034	8-31	0.021	8-31	0.027	8-31	0.034	8-31	0.034	8-30	0.034	8-29	0.038	8-25	0.054		
MAXIMUMS FOR PERIOD OF RECORD																		
	7-26	0.100	7-28	0.080	7-28	0.100	7-28	0.110	7-28	0.110	7-28	0.110	7-28	0.120	8-19	0.180		
	1966		1966		1966		1966		1966		1966		1966		1963			

NOTES: Watershed conditions: Vegetative cover: Oak woodland and desert shrubs (whitethorn, creosotebush, tarbush, mottonia) occupy approximately 45% of area, with a crown spread of 25% cover. The remaining 55% of the area supports a grass cover (black grama, curly mesquite, tobosa, blue grama, and sideoats grama) with a basal area of 2.5% cover and a shrub cover of approximately 6% crown spread. For topographic, geologic and vegetative maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1962. Monthly totals are Thiessen weighted averages of values from 51 gages. Station averages are based on 1968 only. Runoff Data: Records began 1962. STA AV based on 1966 and 1968 data, other years of record are being reevaluated. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.24	0.00	0.0	0.0	0.0		
2	0.0	0.0	0.09	0.03	0.0	0.0	0.45E	0.15	0.11	0.00	0.0	0.0		
3	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.17E	0.20	0.00	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.04E	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.64E	0.36	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.01	0.0	0.0	0.0	0.06	0.05	0.0	0.0	0.0	0.0		
7	0.34M	0.0	0.05E	0.0	0.0	0.0	0.00	0.28E	0.0	0.0	0.0	0.0		
8	0.12M	0.0	0.09E	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
9	0.0	0.41E	0.43M	0.18E	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
10	0.07S	0.34E	0.56M	0.05E	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.10E	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.28E	0.0	0.01	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0		
13	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.07E	0.0		
14	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.17E	0.0	0.39E	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.00	0.0	0.0	0.02	0.00	0.13E	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.54E	1.12E	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.09M		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.49E	0.0	0.0	0.0	0.0		
26	0.00	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.44E		
27	0.01	0.01	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.14E		
28	0.10E	0.0	0.0	0.0	0.0	0.0	0.06E	0.13E	0.0	0.0	0.0	0.0		
29	0.00	0.0	0.0	0.03	0.0	0.0	0.15	0.39	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.15	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.63	0.0	0.0	0.0	0.0		
TOTAL	0.64	1.49	1.26	0.30	0.0	0.02	3.35	4.57	0.48	0.01	0.46	0.67		
STA AV	0.64	1.49	1.26	0.30	0.00	0.02	3.35	4.57	0.48	0.01	0.46	0.67		

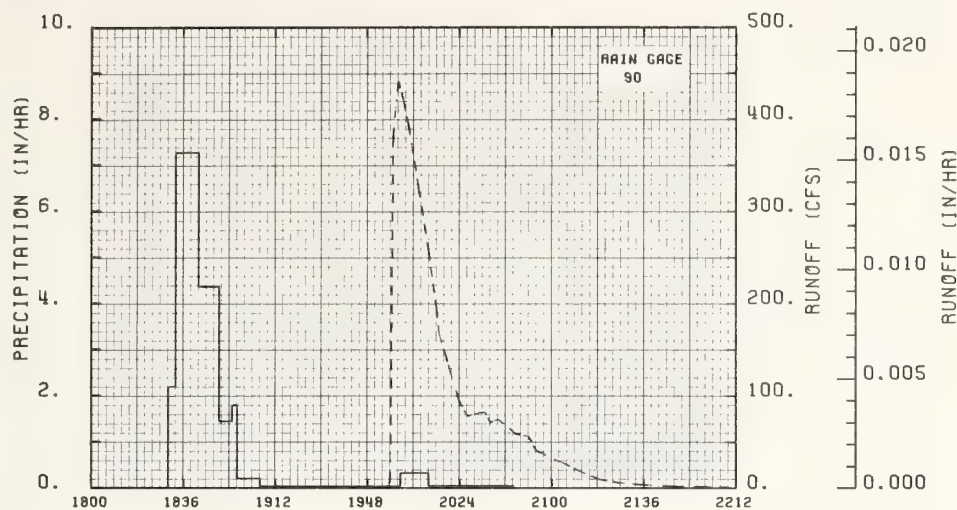
NOTES: Daily precipitation are Thiessen weighted averages of values from 51 gages. STA AV based on 1968 data.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	2.198E	1.133E	0.818E	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.081E	0.245E	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.024E	6.964E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.012E	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.050E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.262E	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.414E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.134E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.725E	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.308E	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.939E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0864	1.9859	0.0354	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.062	0.001	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.081	0.061	0.011	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001013. STA AV based on 1966 and 1968 data. Other years of record are being reevaluated.

1968			SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-6				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 5, 1968										
8- 5	RG 90 0.0	0.0	8- 5	RG 90	0.0	0.0	8- 5	1956	0.0	0.0
				1830	2.2005	0.11		1957	8.480	0.0
				1842	7.2662	1.20		1958	380.370	0.0001
				1850	4.3501	1.78		1959	412.040	0.0004
				1855	1.4401	1.90		2000	440.740	0.0008
WATERSHED CONDITIONS:										
Vegetative Cover: Oak			1857	1.7996	1.96		2002	420.150	0.0014	
woodland and desert shrubs			1906	0.2000	1.99		2004	392.100	0.0020	
(whitethorn, creosotebush,			2001	0.0327	2.02		2008	324.110	0.0030	
tarbush, mormonia) occupy			2012	0.3273	2.08		2012	255.340	0.0038	
approximately 45% of the			2045	0.0364	2.10		2015	193.890	0.0043	
area, with a crown spread							2016	165.980	0.0044	
of 25% cover. The remaining							2019	140.000	0.0047	
55% of the area supports a							2020	128.960	0.0048	
grass cover (black grama,							2024	93.230	0.0051	
curly mesquite, tobosa, blue							2027	78.250	0.0053	
grama, and sideoats grama)										
with basal area of 2.5% cover							2032	82.000	0.0056	
and shrub cover of 6% crown							2034	82.000	0.0057	
spread.							2036	71.130	0.0058	
							2039	74.630	0.0060	
							2046	58.340	0.0063	
							2051	55.430	0.0065	
							2054	40.150	0.0066	
							2105	25.940	0.0069	
							2111	17.920	0.0070	
							2118	9.450	0.0071	
							2120	8.480	0.0071	
							2126	5.550	0.0071	
							2135	3.260	0.0071	
							2148	1.550	0.0071	
							2200	0.760	0.0071	
							2209	0.530	0.0071	
							2218	0.390	0.0071	
							2230	0.180	0.0071	
							2245	0.050	0.0071	
							2300	0.0	0.0071	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 5, 1968

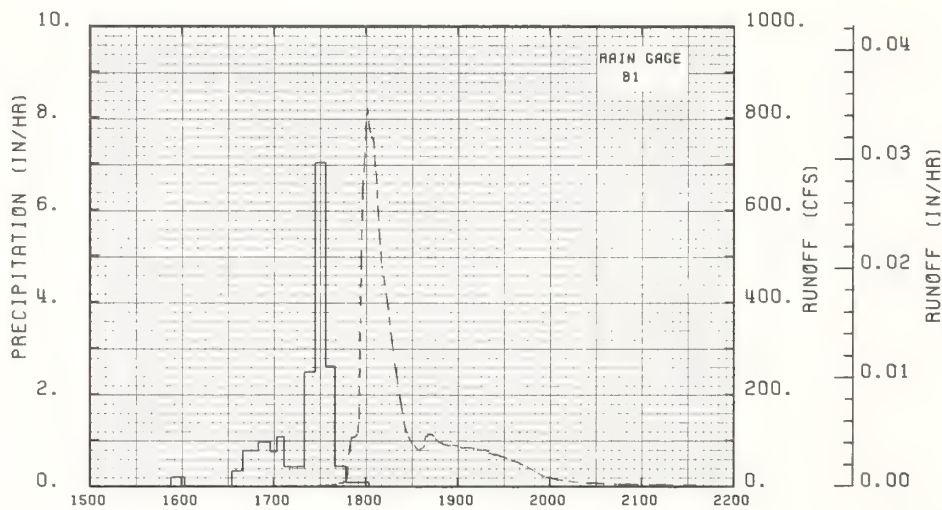
TOMBSTONE, ARIZONA W-6

1968 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA W-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 25, 1968											
8-25	RG 81 0.0	0.0	8-25	RG 81			8-25				
				1553	0.0	0.0		1705	0.0	0.0	
				1602	0.2000	0.03		1710	0.390	0.0	
				1633	0.0	0.03		1725	0.390	0.0	
				1640	0.3429	0.07		1731	1.170	0.0	
				1650	0.7800	0.20		1736	1.770	0.0	
				1658	0.9750	0.33		1739	3.730	0.0	
				1702	0.7500	0.38		1745	8.480	0.0	
				1707	1.0801	0.47		1747	11.000	0.0	
				1720	0.4154	0.56		1748	17.920	0.0	
				1727	2.4857	0.85		1750	96.720	0.0001	
				1734	7.0284	1.67		1751	105.680	0.0002	
				1740	2.6002	1.93		1753	107.990	0.0004	
				1747	0.4286	1.98		1754	110.310	0.0005	
				1802	0.0800	2.00		1755	122.330	0.0006	
								1756	159.300	0.0007	
								1757	491.490	0.0010	
								1758	645.910	0.0014	
								1759	701.940	0.0018	
								1800	778.190	0.0024	
								1801	820.840	0.0029	
								1802	778.190	0.0034	
								1805	748.410	0.0050	
								1806	701.940	0.0055	
								1807	673.640	0.0060	
								1808	592.150	0.0065	
								1809	540.670	0.0069	
								1810	491.490	0.0072	
								1814	400.000	0.0084	
								1817	315.470	0.0092	
								1820	241.030	0.0098	
								1823	176.660	0.0102	
								1826	122.330	0.0105	
								1829	98.920	0.0107	
								1833	82.000	0.0110	
								1835	78.250	0.0111	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.

1968	SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA W-6				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 25, 1968 (CONTINUED)										
							8-25	1838	86.080	0.0113
								1839	107.990	0.0114
								1841	112.670	0.0115
								1843	112.670	0.0117
								1848	94.540	0.0121
								1853	88.160	0.0124
								1859	88.160	0.0128
								1903	82.000	0.0130
								1905	84.030	0.0131
								1908	84.030	0.0133
								1909	82.000	0.0134
								1915	78.250	0.0137
								1918	78.250	0.0139
								1923	67.760	0.0142
								1925	67.760	0.0143
								1928	64.500	0.0144
								1940	49.930	0.0149
								1948	35.830	0.0151
								1955	22.260	0.0152
								2000	17.920	0.0153
								2005	13.330	0.0154
								2017	8.020	0.0155
								2028	5.550	0.0156
								2050	3.030	0.0157
								2113	1.550	0.0157
								2135	0.840	0.0157
								2206	0.390	0.0157
								2230	0.180	0.0157
								2245	0.110	0.0157
								2300	0.0	0.0157

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.



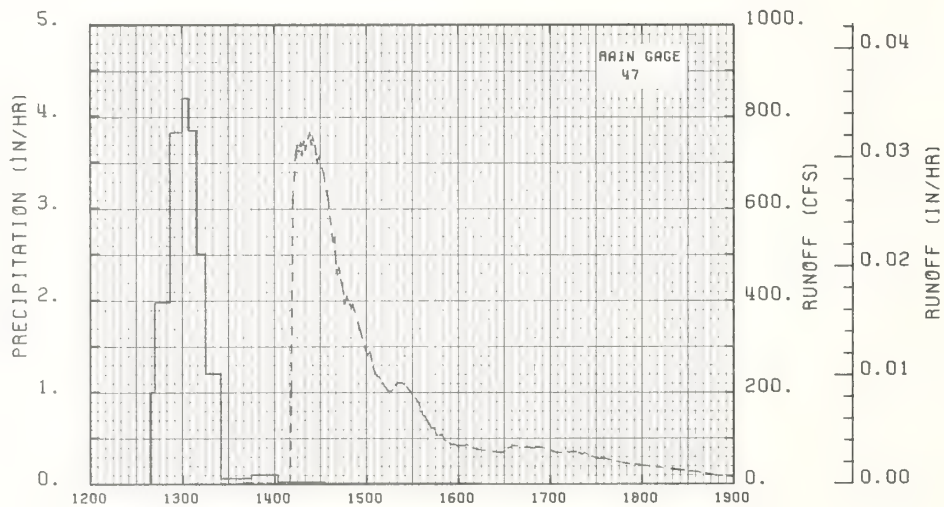
EVENT OF AUGUST 25, 1968
TOMBSTONE, ARIZONA W-6

1968 SELECTED RUNOFF EVENT				TOMBSTONE, ARIZONA W-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 31, 1968											
RG 47			RG 47								
8-31	0.0	0.0	8-31	1239	0.0	0.0	8-31	1306	0.0	0.0	
				1242	1.0000	0.05		1309	0.110	0.0	
				1252	1.9800	0.38		1313	0.110	0.0	
				1300	3.8250	0.89		1316	0.180	0.0	
				1304	4.2000	1.17		1320	0.460	0.0	
WATERSHED CONDITIONS: Vegetative Cover: Oak woodland and desert shrubs (whitethorn, creosotebush, tarbush, mormonia) occupy approximately 45% of the area, with a crown spread of 25% cover. The remaining 55% of the area supports a grass cover (black grama, curly mesquite, tobosa, blue grama, and sideoats grama) with a basal area of 2.5% cover and shrub cover of 6% crown spread.				1309	3.8400	1.49		1326	0.460	0.0	
				1315	2.5000	1.74		1327	0.530	0.0	
				1325	1.2000	1.94		1331	0.530	0.0	
				1345	0.0600	1.96		1334	0.390	0.0	
				1402	0.1059	1.99		1336	0.320	0.0	
				1433	0.0194	2.00		1338	0.690	0.0	
				1614	0.0059	2.01		1340	2.810	0.0	
								1342	3.490	0.0	
								1344	3.490	0.0	
								1352	1.770	0.0	
								1357	1.350	0.0	
								1400	1.350	0.0	
								1403	2.190	0.0	
								1405	2.190	0.0	
								1410	1.550	0.0	
								1411	207.580	0.0001	
								1412	618.740	0.0004	
								1414	725.000	0.0013	
								1415	736.660	0.0019	
								1416	719.200	0.0024	
								1417	742.520	0.0029	
								1418	713.420	0.0034	
								1419	748.410	0.0040	
								1420	725.000	0.0045	
								1423	766.210	0.0061	
								1424	736.660	0.0066	
								1425	754.320	0.0071	
								1427	725.000	0.0082	
								1428	696.240	0.0087	
								1429	713.420	0.0092	
								1432	673.640	0.0107	
								1435	618.740	0.0121	
								1438	525.680	0.0133	
								1439	535.650	0.0136	
								1440	491.490	0.0139	
								1441	453.790	0.0142	
								1442	472.450	0.0146	
								1444	430.970	0.0152	
								1445	417.560	0.0155	
								1446	391.090	0.0158	
								1447	408.730	0.0161	
								1450	382.290	0.0169	
								1451	391.090	0.0172	
								1456	331.570	0.0185	
								1500	284.480	0.0194	
								1501	280.720	0.0196	
								1502	288.270	0.0198	
								1503	276.990	0.0200	
								1505	244.510	0.0204	
								1507	234.140	0.0207	
								1508	234.140	0.0209	
								1512	210.820	0.0215	
								1513	207.580	0.0216	
								1514	201.200	0.0217	
								1516	201.200	0.0220	
								1520	220.660	0.0226	
								1523	220.660	0.0231	
								1528	204.380	0.0238	
								1534	176.660	0.0246	
								1537	148.240	0.0249	
								1538	148.240	0.0250	
								1540	134.970	0.0252	
								1541	129.840	0.0253	
								1542	122.330	0.0254	
								1544	122.330	0.0256	
								1546	105.680	0.0258	
								1549	107.990	0.0260	
								1551	94.540	0.0261	
								1555	86.080	0.0264	
								1557	86.080	0.0265	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr) ¹	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF AUGUST 31, 1968 (CONTINUED)										
				8-31	1600			1600	82.000	0.0267
					1601			1601	84.030	0.0268
					1604			1604	84.030	0.0270
					1605			1605	86.080	0.0271
					1612			1612	74.630	0.0275
					1628			1628	67.760	0.0283
					1635			1635	84.030	0.0287
					1648			1648	78.250	0.0294
					1652			1652	82.000	0.0296
					1704			1704	67.760	0.0302
					1715			1715	71.130	0.0307
					1721			1721	64.500	0.0310
					1722			1722	67.760	0.0310
					1730			1730	55.430	0.0314
					1735			1735	55.430	0.0316
					1748			1748	44.840	0.0321
					1800			1800	40.150	0.0325
					1824			1824	30.000	0.0331
					1835			1835	25.940	0.0333
					1845			1845	20.010	0.0335
					1850			1850	16.930	0.0336
					1859			1859	15.060	0.0337
					1945			1945	9.450	0.0341
					2033			2033	6.320	0.0344
					2115			2115	3.260	0.0345
					2147			2147	1.550	0.0346
					2218			2218	0.530	0.0346
					2230			2230	0.250	0.0346
					2240			2240	0.0	0.0346

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000042. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 31, 1968
TOMBSTONE, ARIZONA W-6

TOMBSTONE, ARIZONA W-8

LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 3830.00 acres 5.98 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								TOMBSTONE, ARIZONA W-8								
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	0.62	1.66	1.18	0.29	0.0	0.04	1.95	4.37 ^a	0.78	0.00	0.49	0.64	12.04		
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.079	0.011	0.0	0.0	0.0	0.096		
STA AV	P	0.62	1.67	1.18	0.29	0.00	0.04	1.95	4.37	0.78	0.00	0.50	0.64	12.04		
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.064	0.005	0.0	0.0	0.0	0.118		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days	
							Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	8- 5	0.147	8- 5	0.047	8- 5	0.051	8- 5	0.051	8- 5	0.051	8- 4	0.051	8- 3	0.051	7-28	0.059
MAXIMUMS FOR PERIOD OF RECORD																
	7-22	1.110	7-22	0.310	7-22	0.320	7-22	0.340	7-22	0.340	7-22	0.340	7-22	0.340	7-22	0.340
	1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Vegetative cover; approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 15 gages. Station averages are based on 1968 data. Runoff Data: Records began 1963. STA AV are based on 1966 and 1968 data, other years of records are being reevaluated. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.09	0.06	0.0	0.0	0.21E	0.56	0.28	0.00	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.33	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02E	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.52E	0.87	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.01	0.0	0.0	0.0	0.01	0.05	0.0	0.0	0.0	0.0		
7	0.40M	0.0	0.03	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0		
8	0.08M	0.0	0.03	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0		
9	0.0	0.35E	0.45M	0.16	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
10	0.06S	0.35E	0.51M	0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.16E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.39E	0.0	0.03	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0		
13	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.07	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.16	0.0	0.43	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.23E	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01	0.0	0.0	0.04	0.01	0.10	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.37E	1.09	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.07M		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.27	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44		
27	0.00	0.00	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.14E		
28	0.06	0.0	0.0	0.0	0.0	0.0	0.00	0.04	0.0	0.0	0.0	0.0		
29	0.00	0.0	0.0	0.02	0.0	0.0	0.00	0.07	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.08	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0		
TOTAL	0.62	1.66	1.18	0.29	0.0	0.04	1.95	4.37	0.78	0.00	0.49	0.64		
STA AV	0.62	1.67	1.18	0.29	0.00	0.04	1.95	4.37	0.78	0.00	0.50	0.64		

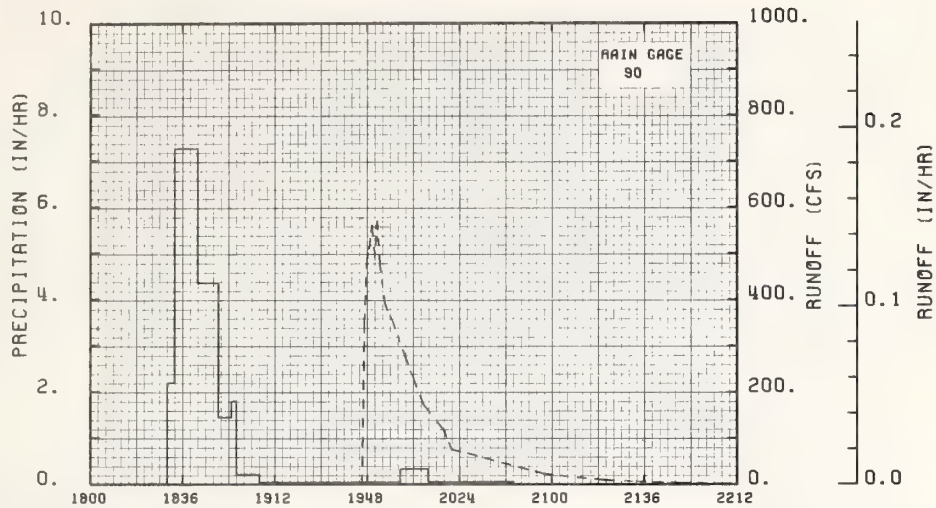
NOTES: Data are Thiessen weighted averages from 15 rain gages. STA AV are based on 1968 data.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.593E	1.286E	1.327E	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.428E	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.027E	8.271E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.033E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.206E	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.914E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.115E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.224E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0315	0.4095	0.0585	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.079	0.011	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.064	0.005	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.006214. STA AV are based on data for 1966 and 1968, other years of data are being reevaluated.

1968 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-8					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 5, 1968											
8- 5	RG 90 0.0	0.0	8- 5	RG 90 1830	0.0	0.0	8- 5	1946	0.0	0.0	
				1833	2.2005	0.11		1947	350.000	0.0007	
				1842	7.2662	1.20		1948	488.690	0.0024	
				1850	4.3501	1.78		1949	521.350	0.0050	
				1855	1.4401	1.90		1950	560.080	0.0072	
WATERSHED CONDITIONS:					1857	1.7996	1.96	1951	488.690	0.0093	
Vegetative cover: Approx-					1906	0.2000	1.99	1952	570.000	0.0114	
imately 33% of the area is					2001	0.0327	2.02	1953	475.040	0.0140	
dominated by desert shrubs					2012	0.3273	2.08	1955	389.380	0.0175	
(whitethorn, creosotebush,					2045	0.0364	2.10	1958	350.000	0.0224	
tarbush) with a crown											
spread of approximately											
30% and an understory of								2003	274.070	0.0290	
grasses with less than 1%								2006	229.640	0.0323	
basal area. The remaining								2010	171.800	0.0358	
67% of the area is dominated								2018	114.530	0.0407	
by grasses (black grama,								2021	74.260	0.0419	
curly mesquite, sideoats											
grama) with a basal area of								2057	20.940	0.0493	
about 2.5%, interspersed by								2120	7.900	0.0507	
desert shrubs with a crown								2133	4.400	0.0510	
spread of about 5%.								2150	1.000	0.0512	
								2208	0.100	0.0512	
								2230	0.0	0.0512	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 5, 1968

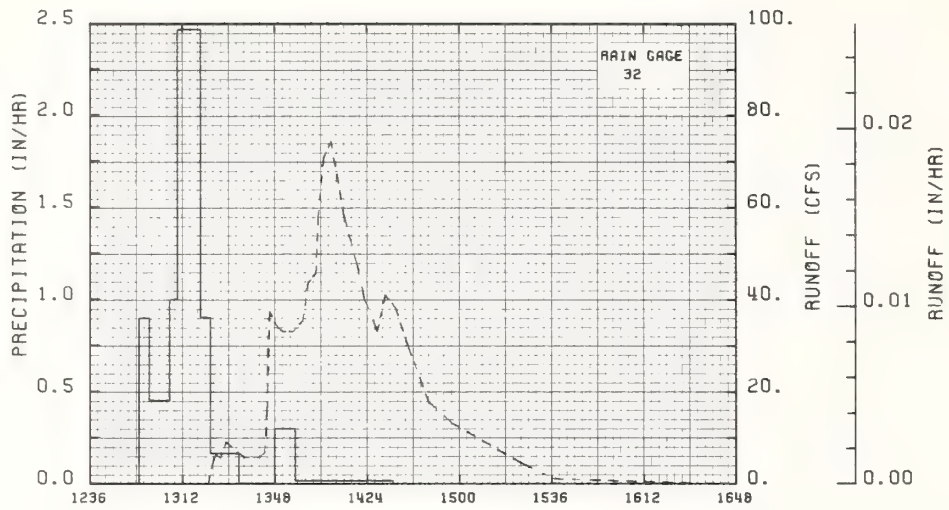
TOMBSTONE, ARIZONA W-8

1968 SELECTED RUNOFF EVENT

TOMBSTONE, ARIZONA W-8

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)
EVENT OF AUGUST 31, 1968								
8-31	BG 32 0.0	0.0	8-31	BG 32		8-31	1322	0.0
				1255	0.0		1324	5.050
				1259	0.9000		1325	6.070
				1307	0.4500		1327	5.720
				1310	1.0000		1329	8.960
				1319	2.4667			
				1323	0.9000		1336	5.720
				1334	0.1636		1342	5.720
				1348	0.0		1344	8.780
				1356	0.3000		1345	15.870
				1434	0.0158		1346	37.320
							1349	33.870
							1351	33.030
							1355	33.030
							1359	35.580
							1401	43.750
							1404	45.670
							1405	58.000
							1407	70.810
							1410	74.260
							1415	58.000
							1420	47.630
							1423	40.020
							1428	33.030
							1431	40.930
							1435	38.210
							1440	29.770
							1448	17.690
							1457	13.100
							1524	4.800
							1537	1.000
							1630	0.0

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 31, 1968
TOMBSTONE, ARIZONA W-8

TOMBSTONE, ARIZONA W-11

LOCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 2035.00 acres 3.18 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								TOMBSTONE, ARIZONA W-11									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	0.66	1.53	1.23	0.30	0.0	0.03	1.66	4.99	0.66	0.01	0.58	0.63	12.29			
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.226	0.035	0.0	0.0	0.0	0.262			
STA AV	P	0.66	1.53	1.23	0.30	0.00	0.03	1.66	4.99	0.66	0.01	0.58	0.63	12.29			
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.155	0.143	0.018	0.0	0.0	0.0	0.316			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date		1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		8- 5	0.427	8- 5	0.136	8- 5	0.139	8- 5	0.139	8- 5	0.139	8- 5	0.139	8- 4	0.139	7-29	0.209
MAXIMUMS FOR PERIOD OF RECORD																	
		9-11	0.520	9-10	0.620	9- 9	0.750	9- 9	0.770	9- 9	0.970	9- 9	0.970	9-10	1.460	9- 8	1.700
		1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Approximately 20% of the area dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 9 rain gages. STA AV are based on 1968 data only. Runoff Data: Records began 1963. STA AV are based on 1966 and 1968 data, other years of record are being reevaluated. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-11	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.15	0.07	0.0	0.0	0.03	0.87	0.34	0.01	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.20	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.47	1.26	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.00	0.0	0.0	0.0	0.01	0.09	0.0	0.0	0.0	0.0		
7	0.40M	0.0	0.04	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0		
8	0.09M	0.0	0.04	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
9	0.0	0.33E	0.43M	0.15	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0		
10	0.07S	0.32E	0.48M	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.20E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.33E	0.0	0.04	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0		
13	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.52	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01	0.0	0.0	0.03	0.01	0.11	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.32	1.09	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.07M		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.08	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44		
27	0.00	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.13E		
28	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
29	0.01	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.10	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0		
TOTAL	0.66	1.53	1.23	0.30	0.0	0.03	1.66	4.99	0.66	0.01	0.58	0.63		
STA AV	0.66	1.53	1.23	0.30	0.00	0.03	1.66	4.99	0.66	0.01	0.58	0.63		

NOTES: Data are Thiessen weighted averages of 9 rain gages. STA AV are 1968 data only.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-11												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.978E	3.031E	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.945E	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016E	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.408E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6241	0.1010	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.226	0.035	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.155	0.143	0.018	0.0	0.0	0.0

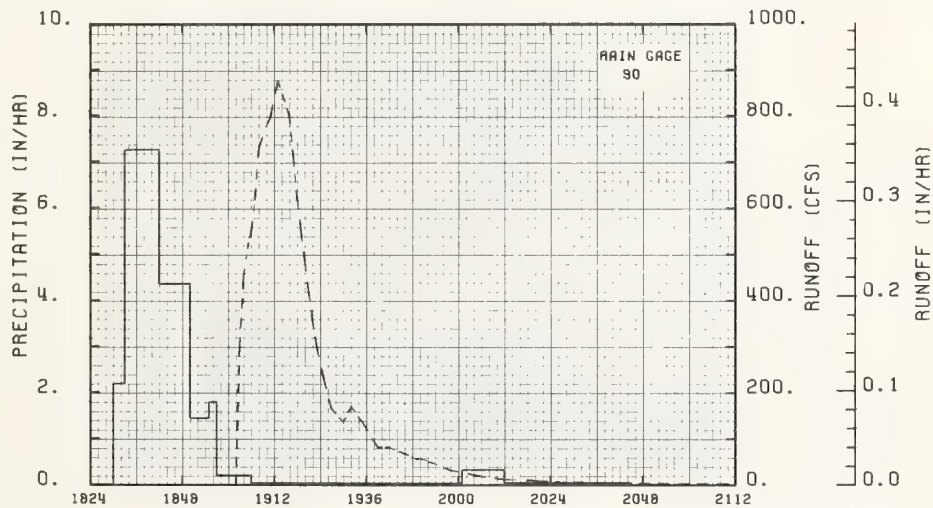
NOTES: To convert mean daily discharge values in CFS to IN/DAY, multiply by 0.011695. STA AV values are based on 1966 and 1968 data, other years of record are being reevaluated.

1968			SELECTED RUNOFF EVENT										TOMBSTONE, ARIZONA W-11									
ANTECEDENT CONDITIONS			RAINFALL										RUNOFF									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	Date	Time	Rate	Acc.								
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	Mo-Day	of Day	(cfs)	(inches)								
EVENT OF AUGUST 5 - 6, 1968																						
8- 5	RG 90 0.0	0.0	8- 5	RG 90 1830	0.0	0.0	8- 5	1902	0.0	0.0												
				1833	2.2005	0.11		1903	300.000	0.0011												
				1842	7.2662	1.20		1904	447.330	0.0047												
				1850	4.3501	1.78		1905	513.410	0.0084												
				1855	1.4401	1.90		1906	547.960	0.0124												
WATERSHED CONDITIONS:																						
Vegetative cover: Approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understory of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover.																						
				1857	1.7996	1.96		1907	620.000	0.0168												
				1906	0.2000	1.99		1908	733.480	0.0232												
				2001	0.0327	2.02		1911	798.580	0.0407												
				2012	0.3273	2.08		1913	876.400	0.0550												
				2045	0.0364	2.10		1916	798.580	0.0757												
								1917	706.440	0.0814												
								1918	620.000	0.0865												
								1919	547.960	0.0921												
								1920	479.870	0.0960												
								1921	415.800	0.0994												
								1922	355.820	0.1023												
								1923	300.000	0.1054												
								1925	226.900	0.1094												
								1927	163.080	0.1127												
								1930	134.820	0.1164												
								1932	169.160	0.1187												
								1935	134.820	0.1225												
								1939	80.550	0.1260												
								1942	80.550	0.1280												
								1946	66.550	0.1304												
								1949	55.180	0.1319												
								1951	53.990	0.1327												
								1953	47.160	0.1336												
								1958	30.600	0.1352												
								2005	18.920	0.1366												
								2012	10.600	0.1374												
								2021	7.500	0.1381												
								2037	2.400	0.1387												
								2110	0.690	0.1391												
								2128	0.460	0.1392												

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 5 - 6, 1968 (CONTINUED)											
							8- 5	2153	0.320	0.1393	
								2321	0.250	0.1395	
								2400	0.180	0.1396	
							8- 6	145	0.110	0.1397	
								400	0.0	0.1398	

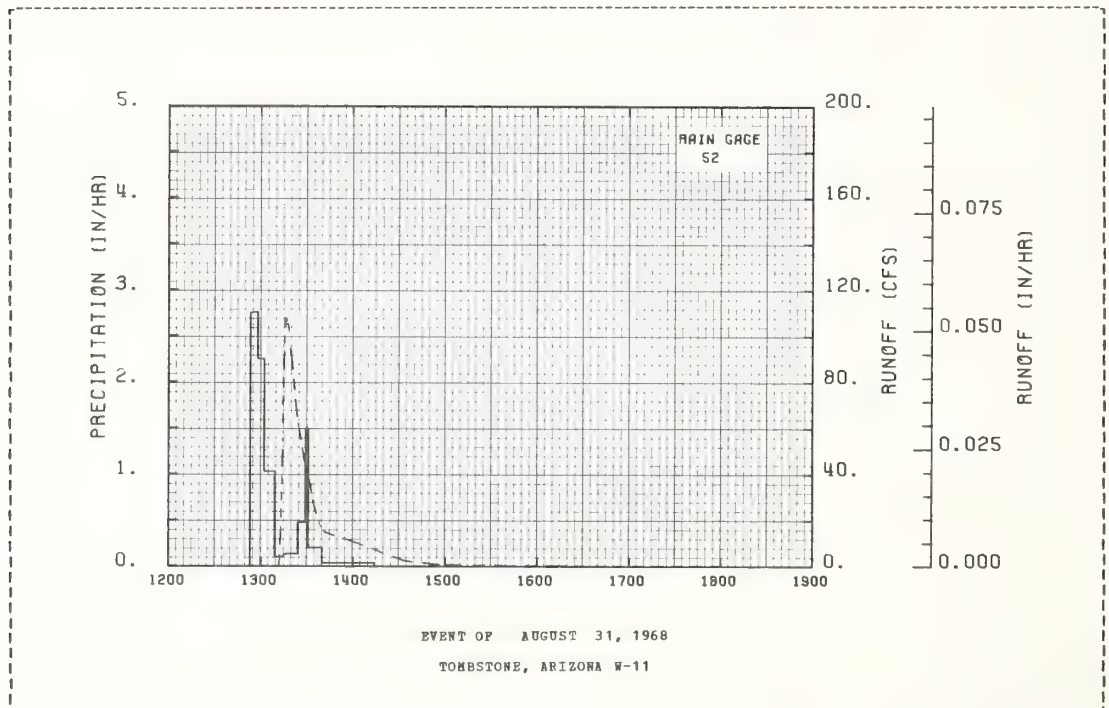
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 5 - 6, 1968
TOMBSTONE, ARIZONA W-11

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF AUGUST 31, 1968											
8-31	RG 52 0.0	0.0	8-31	1253	0.0	0.0	8-31	1310	0.0	0.0	
				1258	2.7600	0.23		1312	0.390	0.0	
				1302	2.2500	0.38		1313	13.960	0.0001	
				1309	1.0286	0.50		1314	47.160	0.0003	
				1315	0.1000	0.51		1315	89.720	0.0010	
WATERSHED CONDITIONS:											
Vegetative cover: Approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understory of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover.				1324	0.1333	0.53		1316	107.850	0.0018	
				1329	0.4800	0.57		1318	103.640	0.0034	
				1331	1.5000	0.62		1320	89.720	0.0051	
				1340	0.2000	0.65		1323	67.890	0.0071	
				1414	0.0353	0.67		1325	58.830	0.0081	
								1328	47.160	0.0094	
								1332	35.380	0.0107	
								1335	25.240	0.0115	
								1339	17.190	0.0122	
								1342	14.650	0.0126	
								1400	10.600	0.0145	
								1433	2.400	0.0162	
								1453	0.760	0.0165	
								1505	0.530	0.0166	
								1540	0.250	0.0167	
								1613	0.110	0.0167	
								1800	0.0	0.0167	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487. For isohyetal map of the event, see information included for Watershed 63.001.



TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County; 3/4 miles east of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 5912.00 acres 9.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										TOMBSTONE, ARIZONA W-15							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	0.59	1.29	1.23	0.34	0.0	0.02	4.34	5.17	0.35	0.01	0.38	0.69	14.40			
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.221	0.000	0.0	0.0	0.0	0.225			
STA AV	P	0.58	0.69	0.37	0.16	0.17	0.17	4.18	3.62	1.34	0.03	0.30	1.71	13.33			
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.153	0.030	0.0	0.0	0.0	0.214			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968		8-31	0.181	8-31	0.118	8-31	0.148	8-31	0.174	8-31	0.176	8-31	0.176	8-29	0.202	8-24	0.221
MAXIMUMS FOR PERIOD OF RECORD																	
		8-31	0.181	8-19	0.130	8-19	0.170	8-19	0.200	8-19	0.200	8-19	0.230	8-19	0.250	8-19	0.250
		1968		1966		1966		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a crown spread of approximately 30% and an understory of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sideoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. STA AV are based on record period 1965-1968. Runoff Data: Records began January 1965. STA AV are based on record period 1965-1968. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA W-15	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.62	0.10	0.00	0.00	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34E	0.15	0.01	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.04	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.16	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.00	0.0	0.0	0.0	0.0		
7	0.30M	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.38E	0.0	0.0	0.0	0.0		
8	0.12M	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0		
9	0.0	0.43E	0.43M	0.21E	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
10	0.06S	0.32	0.61M	0.09E	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.05	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0		
13	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.07E	0.0		
14	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.30E	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.20E	0.0	0.0	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	1.06E	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.10M		
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.45E		
27	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.14E		
28	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.44	0.86	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.06	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	1.16	0.0	0.0	0.0	0.0		
TOTAL		0.59	1.29	1.23	0.34	0.0	0.02	4.34	5.17	0.35	0.01	0.38	0.69		
STA AV		0.58	0.69	0.37	0.16	0.17	0.17	4.18	3.62	1.34	0.03	0.30	1.71		

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV are based on period of record 1965-1968.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-15												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013E	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.010E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.599E	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004E	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.750E	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.236E	6.100E	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.466E	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.783E	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0321	1.772E	0.0004	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.221	0.000	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.153	0.030	0.0	0.0	0.0

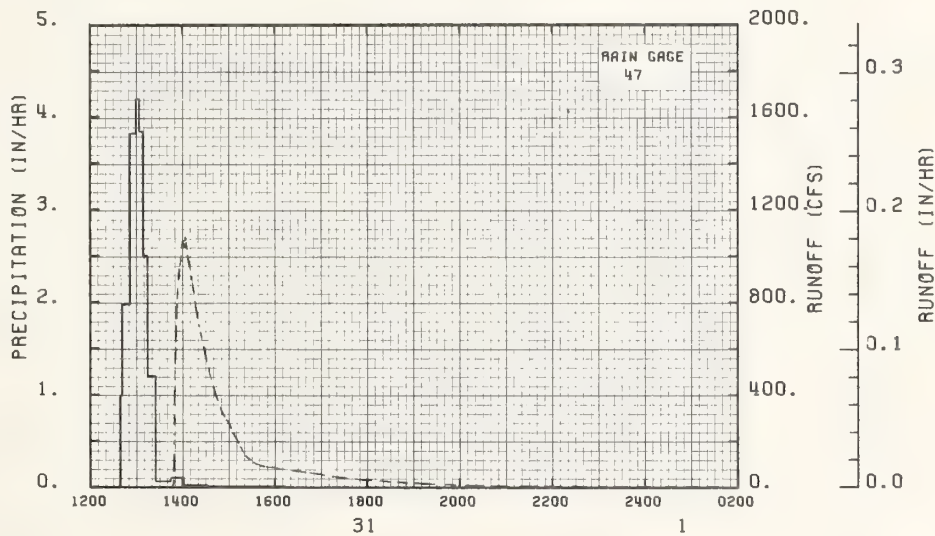
NOTES: To convert mean daily discharge in CFS to IN/HR, multiply by 0.004022. STA AV are based on record period 1965-68.

1968 SELECTED RUNOFF EVENT						TOMBSTONE, ARIZONA W-15					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 31 - SEPTEMBER 1, 1968											
RG 47			RG 47								
8-31	0.0	0.0	8-31	1239	0.0	0.0	8-31	1319	0.0	0.0	
				1242	1.0000	0.05		1324	0.24	0.0	
				1252	1.9800	0.38		1329	0.24	0.0	
				1300	3.8250	0.89		1332	0.18	0.0	
				1304	4.2000	1.17		1337	0.18	0.0	
WATERSHED CONDITIONS:											
Vegetative cover: Desert shrubs (whitethorn, creosote-bush, tarbush) occupy 78% of area with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. 22% of the area supports a grass cover (black grama, tobosa, blue grama, sidecoats grama and curly mesquite) of approximately 2% basal area.			1309	3.8400	1.49		1343	0.24	0.0		
			1315	2.5000	1.74		1348	0.24	0.0		
			1325	1.2000	1.94		1349	104.43	0.0002		
			1345	0.0600	1.96		1350	401.60	0.0009		
			1402	0.1059	1.99		1351	572.41	0.0022		
			1433	0.0194	2.00		1352	665.91	0.0038		
			1614	0.0059	2.01		1353	766.43	0.0061		
							1354	845.26	0.0082		
							1356	926.96	0.0128		
							1358	983.36	0.0184		
							1400	1064.02	0.0244		
							1403	1040.74	0.0327		
							1404	1081.64	0.0362		
							1406	1040.74	0.0418		
							1408	983.36	0.0478		
							1414	872.11	0.0630		
							1418	766.43	0.0721		
							1424	665.91	0.0843		
							1430	572.41	0.0948		
							1436	485.41	0.1035		
							1443	401.60	0.1122		
							1453	316.48	0.1223		
							1500	278.03	0.1281		
							1510	209.37	0.1348		
							1519	151.85	0.1394		
							1525	124.56	0.1417		
							1536	98.16	0.1451		
							1544	90.12	0.1472		
							1553	84.35	0.1494		
							1557	84.35	0.1503		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168. For isohyetal map of event, see information included for Watershed 63.001.

1968 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-15					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)
Acc. (inches)								
EVENT OF AUGUST 31 - SEPTEMBER 1, 1968 (CONTINUED)								
				8-31		1605		78.78
						1633		66.61
						1654		55.56
						1726		39.16
						1755		29.96
								0.1521
								0.1578
								0.1614
								0.1656
								0.1684
						1914		13.41
						2022		5.20
						2051		3.37
						2133		1.98
						2200		1.53
								0.1732
								0.1750
								0.1753
								0.1756
								0.1757
						2240		0.99
						2330		0.60
						2400		0.38
								0.1759
								0.1759
				9- 1		135		0.0
								0.1760

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168. For isohyetal map of event, see information included for Watershed 63.001.



EVENT OF AUGUST 31 - SEPTEMBER 1, 1968

TOMBSTONE, ARIZONA W-15

TOMBSTONE, ARIZONA WATERSHED 63.103

LOCATION: Cochise County; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin

AREA: 560.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED 63.103																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	0.60	0.90	1.17	0.68	0.0	0.0	3.28	4.07	0.36	0.0	0.33	0.42	11.81																	
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.491	0.0	0.0	0.0	0.0	0.536																	
STA AV	P	0.44	0.57	0.36	0.25	0.11	0.19	3.40	2.77	1.98	0.05	0.24	1.89	12.24																	
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.303	0.060	0.0	0.0	0.015	0.442																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval																							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		8-31	1.163	8-31	0.311	8-31	0.315	8-31	0.315	8-31	0.315	8-30	0.315	8-29	0.341	8-23	0.491														
MAXIMUMS FOR PERIOD OF RECORD																															
		8-13	2.070	8-13	0.530	8-13	0.530	8-13	0.530	8-13	0.530	8-13	0.530	8-13	0.530	8-13	0.530														
		1965		1965		1965		1965		1965		1965		1965		1965															

NOTES: Watershed conditions: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread of about 25% and an understory of grasses with about 0.6% basal cover. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began January 1965. Monthly totals are values from gage No. 83. STA AV are based on 1965-1968 data. Runoff Data: Records began January 1965. STA AV are based on data for the record period 1965-1968. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records at Tombstone, Arizona.

1968		DAILY PRECIPITATION (inches)						TOMBSTONE, ARIZONA WATERSHED 63.103						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.07	0.0	0.0	1.02	0.05	0.0	0.0	0.0	0.0	
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.09	0.0	0.0	0.0	0.0	
	6	0.0	0.0	0.08	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
	7	0.40M	0.0	0.03	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
	8	0.10M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	9	0.0	0.42	0.48M	0.22	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	
	10	0.10S	0.07	0.56M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	12	0.0	0.27	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	13	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.25	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	
	19	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.30	1.05	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	
	27	0.0	0.02	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.02	0.0	0.0	0.0	0.0	
	31	0.0		0.0		0.0		0.0	0.97		0.0		0.0	
TOTAL		0.60	0.90	1.17	0.68	0.0	0.0	3.28	4.07	0.36	0.0	0.33	0.42	
STA AV		0.44	0.57	0.36	0.25	0.11	0.19	3.40	2.77	1.98	0.05	0.24	1.89	

NOTES: Data are values from gage No. 83. STA AV values are based on record period 1965-1968.

1968 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED 63.103												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.002E	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.110	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0005	0.0055	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.491	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.064	0.303	0.060	0.0	0.0	0.015

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.04250. STA AV based on record period 1965-1968.

TOMBSTONE, ARIZONA WATERSHED 63.111

LOCATION: Cochise County; 6-1/2 miles NW of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin.

AREA: 143.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA WATERSHED 63.111															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.71	1.39	1.59	0.29	0.0	0.0	2.48	4.60	0.33	0.00	0.66	0.60	12.68															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.015	0.0	0.0	0.0	0.0	0.022															
STA AV	P	0.56	0.43	0.39	0.14	0.03	0.15	3.89	2.43	2.51	0.16	0.61	1.00	12.29															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.421	0.156	0.360	0.0	0.0	0.0	0.937															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge Date		1 Hour Date		2 Hours Date		Maximum Volume for 6 Hours Date		Selected Time Interval 12 Hours Date		2 Days Date		8 Days Date															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		8-31	0.025	7-20	0.006	7-24	0.006	7-24	0.006	7-24	0.006	7-24	0.006	7-23	0.006	8-23	0.012												
MAXIMUMS FOR PERIOD OF RECORD																													
		7-22 1964	2.900	7-22 1964	0.830	7-22 1964	0.830	7-22 1964	0.830	7-22 1964	0.840	7-22 1964	0.840	9-10 1964	1.340	9-10 1964	1.450												

NOTES: Watershed conditions: Representative of desert grassland. Vegetation dominated by short grasses (blue, sideoats, black and hairy grammas and curly mesquite) with basal cover of approximately 2.5%. Shrubs present include soapweed, mesquite, and burroweed with a total canopy of approximately 20%. For topographic, geologic and vegetation maps see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began 1962. Monthly totals are Thiessen weighted average values from rain gage stations No. 61 and 82. STA AV are based on record period 1962-1968. Runoff Data: Records began 1962. STA AV are based on record period 1962-1968. Temperature Data: See table of maximum and minimum values included with the data for Watershed 63.001. For long-time precipitation records, see U.S. Weather Bureau records, at Tombstone, Arizona.

1968 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA WATERSHED 63.111													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0															
2	0.0	0.0	0.33	0.04	0.0	0.0	0.06	0.13	0.13	0.00	0.0	0.0															
3	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.0	0.0															
4	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.02	0.0	0.0	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.73	0.0	0.0	0.0	0.0															
6	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.32	0.0	0.0	0.0	0.0															
7	0.26M	0.0	0.10	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0															
8	0.17M	0.0	0.18	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0															
9	0.0	0.40	0.41M	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
10	0.08S	0.38	0.50M	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0															
11	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
12	0.0	0.23	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
13	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05															
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.60	0.0															
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
18	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0															
19	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.0	0.57	1.11	0.0	0.0	0.0	0.0															
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04M															
22	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
24	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0															
25	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38															
27	0.02	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.18															
28	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0															
29	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0															
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0															
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0															
TOTAL	0.71	1.39	1.59	0.29	0.0	0.0	2.48	4.60	0.33	0.00	0.66	0.60															
STA AV	0.56	0.43	0.39	0.14	0.03	0.15	3.89	2.43	2.51	0.16	0.61	1.00															

NOTES: Data are Thiessen weighted values from rain gages No. 61 and 82. STA AV are based on record period 1962-1968.

TOMBSTONE, ARIZONA WATERSHED 63.111												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.003E	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0013	0.0030	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.015	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.421	0.156	0.360	0.0	0.0	0.0

NOTES: To convert mean daily discharge values in CFS to IN/DAY, multiply by 0.166445. STA AV are based on record period 1962-1968.

SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Guadalupe and Quay Counties; 30 miles east of Santa Rosa; Alamogordo Creek, Tributary of Pecos River.

AREA: 42880.00 acres 67.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SANTA ROSA, NEW MEXICO WATERSHED W-1													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	0.69	0.16	0.77	0.65	0.45	0.51	4.33	1.78	0.11	0.65	0.51	0.10	10.71													
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0	0.039													
STA AV	P	0.69	0.16	0.77	0.65	0.46	0.51	4.33	1.78	0.11	0.65	0.51	0.10	10.71													
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0	0.039													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 5 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.										
1968		7-25	0.012	7-25	0.011	7-25	0.017	7-25	0.023	7-25	0.025	7-25	0.025	7-24	0.028	7-18	0.029										
MAXIMUMS FOR PERIOD OF RECORD																											
		7-25	0.012	7-25	0.011	7-25	0.017	7-25	0.023	7-25	0.025	7-25	0.025	7-24	0.028	7-18	0.029										
		1968		1968		1968		1968		1968		1968		1968		1968											

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring muhly. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are weighted averages of 63 rain gages. Precipitation and runoff records began in 1955. Data published prior to these for 1968 are being revised and will be republished in a later volume. STA AV values are based on the one year (1968) only. Topographic map of watershed has not been published. For long-time precipitation records, see U.S. Weather Bureau records at Santa Rosa, New Mexico.

1968		DAILY PRECIPITATION (inches)					SANTA ROSA, NEW MEXICO WATERSHED W-1							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.06E	0.0	0.04	0.07E	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.39E	0.0	0.0	0.0	0.00	0.0	
	3	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.02	0.02E	0.49E	0.09	0.0	
	4	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.99E	0.0	0.0	0.0	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.71E	0.0	0.01	0.0	0.16E	0.0	
	7	0.0	0.0	0.0	0.0	0.0	0.15	0.15E	0.01	0.0	0.0	0.14E	0.0	
	8	0.03E	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	9	0.03E	0.0	0.0	0.0	0.00	0.0	0.15	0.33E	0.0	0.0	0.0	0.0	
	10	0.0	0.0	0.56E	0.0	0.02E	0.0	0.01	0.01E	0.0	0.0	0.0	0.0	
	11	0.0	0.0	0.09E	0.0	0.02	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	
	12	0.0	0.0	0.01	0.0	0.17	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	
	13	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	
	14	0.0	0.02	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.11	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.10E	0.0	0.0	
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	
	18	0.0	0.0	0.0	0.0	0.0	0.0	0.83E	0.0	0.0	0.0	0.0	0.10E	
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	20	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
	21	0.40E	0.00	0.0	0.0	0.0	0.0	0.34E	0.0	0.08	0.0	0.0	0.0	
	22	0.23E	0.02	0.0	0.29E	0.0	0.07E	0.0	0.00	0.0	0.0	0.0	0.0	
	23	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.26E	0.02	0.0	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.12	0.36E	0.03	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.05	0.0	0.0	0.0	0.0	
	27	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	
	28	0.0	0.0	0.0	0.25E	0.22E	0.0	0.0	0.19E	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.60E	0.0	0.0	0.0	0.0	
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.50E	0.0	0.0	0.0	0.0	
TOTAL		0.69	0.16	0.77	0.65	0.45	0.51	4.33	1.78	0.11	0.65	0.51	0.10	
STA AV		0.69	0.16	0.77	0.65	0.46	0.51	4.33	1.78	0.11	0.65	0.51	0.10	

NOTES: Daily values are Thiessen weighted average amounts from 63 rain gages. Precipitation records began in 1955. Data published prior to these for 1968 are being revised and will be republished in later volume. STA AV are based on 1968 data only.

1968 MEAN DAILY DISCHARGE (cfs) SANTA ROSA, NEW MEXICO WATERSHED W-1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.023	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	3.085E	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.001	0.003E	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0 E	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.380	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.890	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0 E	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	5.275E	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	44.299	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	1.551	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.102	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.078	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.913	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0	0.0	0.0002	1.7902	0.4869	0.0008	0.0	0.0	0.0	
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0	
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.008	0.000	0.0	0.0	0.0	

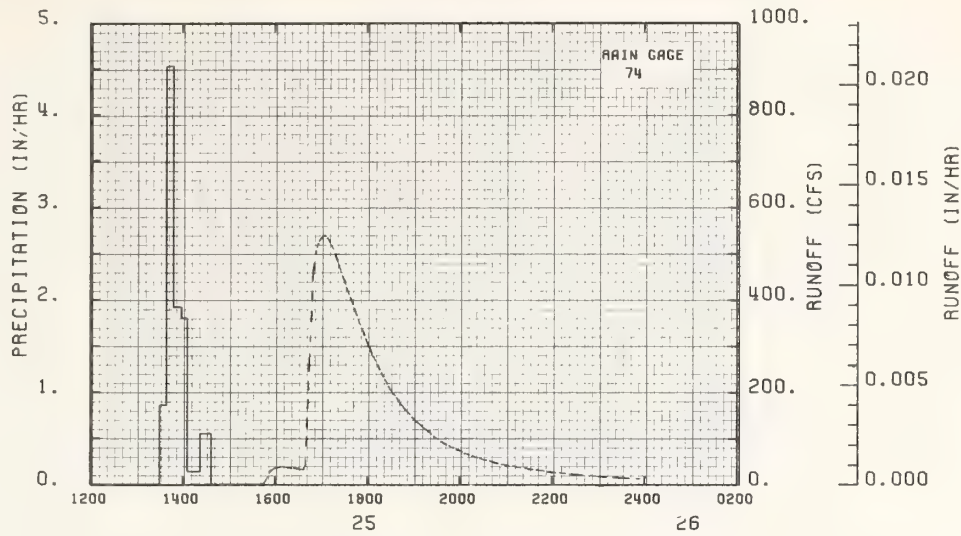
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.000554. Runoff records started in 1955 but data published prior to these for 1968 are being revised and are to be republished in a later volume. STA AV are based on 1968 data only.

1968 SELECTED RUNOFF EVENT SANTA ROSA, NEW MEXICO WATERSHED W-1											
ANTECEDENT CONDITIONS			FAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 25, 1968											
RG 74			RG 74								
7-25	0.0	0.001	7-25	1330	0.0	0.0	7-25	1412	0.220	0.0	
				1339	0.8667	0.13		1415	0.250	0.0	
				1348	4.5333	0.81		1437	0.280	0.0	
				1358	1.9200	1.13		1445	0.310	0.0	
				1406	1.8000	1.37		1450	0.400	0.0	
WATERSHED CONDITIONS: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring holly. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed.				1423	0.1412	1.41		1455	0.500	0.0	
				1437	0.5571	1.54		1500	0.710	0.0	
								1505	0.830	0.0	
								1515	0.970	0.0	
								1527	1.050	0.0	
								1538	1.130	0.0	
								1543	1.220	0.0	
								1545	1.600	0.0	
								1550	14.400	0.0	
								1555	30.900	0.0	
								1600	36.500	0.0001	
								1605	37.900	0.0002	
								1607	38.600	0.0002	
								1613	37.900	0.0003	
								1618	35.800	0.0004	
								1630	33.900	0.0006	
								1633	33.300	0.0006	
								1638	33.300	0.0007	
								1640	45.000	0.0007	
								1645	266.000	0.0010	
								1650	465.000	0.0017	
								1655	518.000	0.0026	
								1700	534.000	0.0036	
								1705	540.000	0.0046	
								1710	529.000	0.0056	
								1715	513.000	0.0066	
								1720	491.000	0.0076	
								1725	465.000	0.0085	
								1730	442.000	0.0094	
								1735	417.000	0.0102	

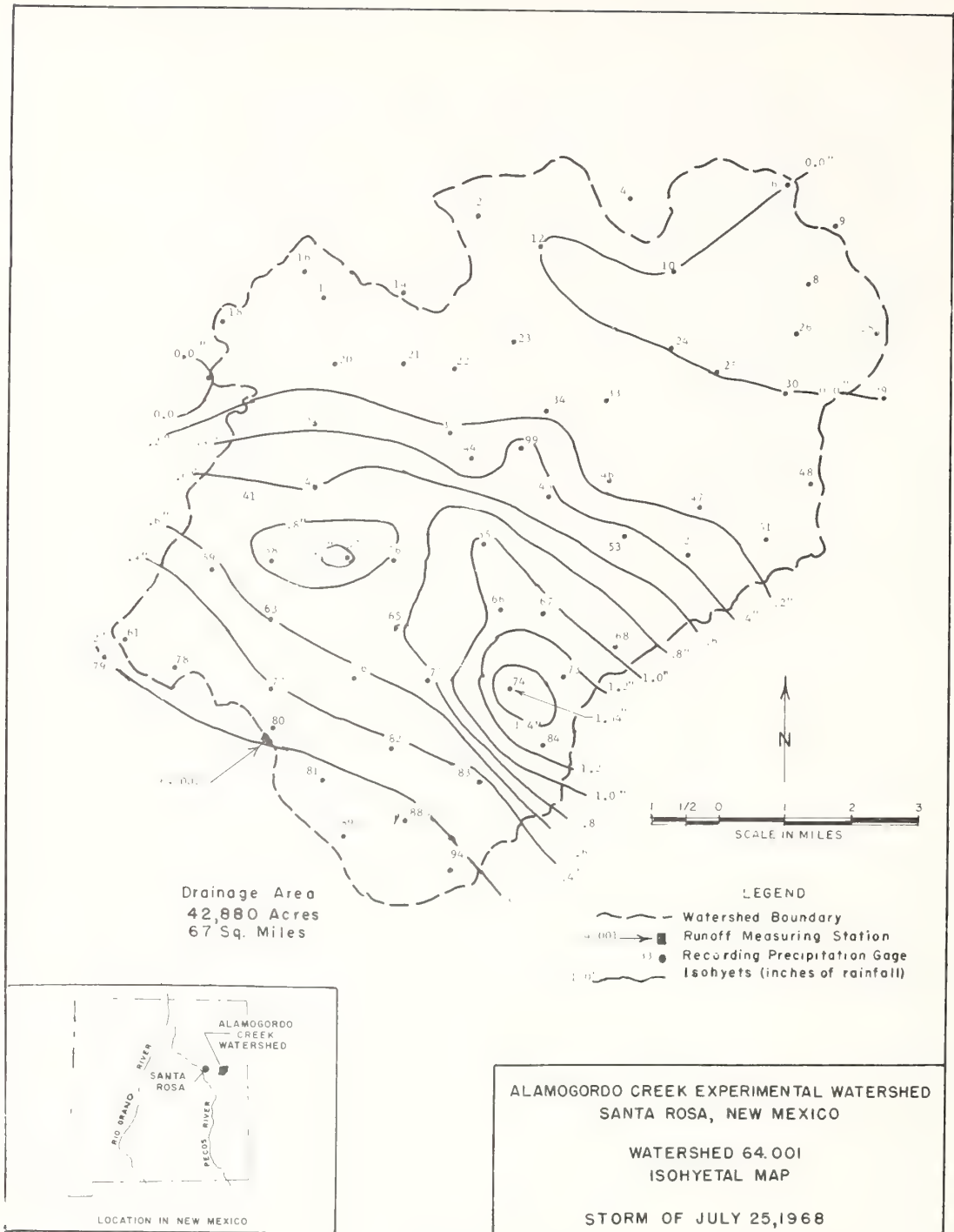
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231. For isohyetal map of event, see following page, as appropriate.

1968	SELECTED RUNOFF EVENT					SANTA ROSA, NEW MEXICO WATERSHED #1					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 25, 1968 (CONTINUED)											
							7-25	1740	397.000	0.0110	
								1745	373.000	0.0118	
								1750	349.000	0.0125	
								1755	329.000	0.0131	
								1800	307.000	0.0137	
								1805	288.000	0.0143	
								1810	270.000	0.0148	
								1815	254.000	0.0153	
								1820	235.000	0.0158	
								1825	222.000	0.0162	
								1830	205.000	0.0166	
								1835	195.000	0.0170	
								1840	183.000	0.0174	
								1845	171.000	0.0178	
								1850	161.000	0.0181	
								1855	152.000	0.0184	
								1900	142.000	0.0187	
								1905	135.000	0.0190	
								1910	127.000	0.0192	
								1915	120.000	0.0194	
								1920	114.000	0.0196	
								1930	98.900	0.0200	
								1940	88.100	0.0204	
								1950	79.900	0.0207	
								2000	72.800	0.0210	
								2010	64.800	0.0213	
								2020	59.300	0.0215	
								2030	54.000	0.0217	
								2045	47.300	0.0220	
								2100	41.400	0.0223	
								2115	37.200	0.0225	
								2130	33.300	0.0227	
								2145	29.700	0.0229	
								2200	26.200	0.0231	
								2215	23.700	0.0232	
								2230	21.200	0.0233	
								2300	17.400	0.0235	
								2330	14.000	0.0237	
								2400	11.300	0.0238	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231. For isohyetal map of event, see following page, as appropriate.



EVENT OF JULY 25, 1968
SANTA ROSA, NEW MEXICO WATERSHED W-1



NEWELL, SOUTH DAKOTA WATERSHED W-2

LOCATION: Butte Co., South Dakota, 33 mi. NE of Newell, Sand Creek, South Moreau River Watershed.

AREA: 115.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														NEWELL, SOUTH DAKOTA WATERSHED W-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	0.21	0.28	0.16	0.31	1.69	3.40	1.29	0.83	1.04	0.05	0.52	0.76	10.54	
	O	0.0	0.100	0.0	0.0	0.002	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.103	
STA AV	P	0.20	0.24	0.45	1.09	2.11	3.29	1.65	1.08	1.15	0.41	0.30	0.26	12.24	
	O	0.009	0.073	0.136	0.009	0.100	0.091	0.100	0.000	0.009	0.0	0.0	0.0	0.528	

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 19%, good - 64%, fair - 17%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.2-4. Precipitation from rain gage W-2A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)													
NEWELL, SOUTH DAKOTA WATERSHED W-2													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.08S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	0.14S	
2	0.0	0.0	0.0	0.07S	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.02S	
3	0.0	0.0	0.0	0.03S	0.0	0.23	0.0	0.05	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15S	0.0	
5	0.03S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.02S	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.07S	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.07	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.10S	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.13S	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08S	
13	0.0	0.0	0.0	0.06S	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.08S	0.0	0.23	0.0	0.0	0.11	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.62	0.20	0.0	0.0	0.32	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.11	0.0	0.0	0.0	0.05S	
18	0.0	0.02S	0.08S	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.02S	0.0	
19	0.0	0.11S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.01S	
20	0.0	0.02S	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.04S	
21	0.0	0.01S	0.0	0.10S	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.03S	
22	0.0	0.04S	0.0	0.02S	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
23	0.0	0.0	0.0	0.0	0.0	0.94	0.01	0.50	0.0	0.0	0.0	0.0	
24	0.0	0.04S	0.0	0.0	0.0	0.70	0.19	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.11	0.01	0.0	0.0	0.0	0.0	0.10S	
26	0.10S	0.01S	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.02S	0.0	0.02S	
27	0.0	0.03S	0.0	0.03S	0.04	0.12	0.14	0.0	0.0	0.0	0.0	0.05S	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	
29	0.0	0.0	0.0	0.0	0.0	0.17	0.61	0.0	0.0	0.0	0.0	0.03S	
30	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.04S	
31	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.21	0.28	0.16	0.31	1.69	3.40	1.29	0.83	1.04	0.05	0.52	0.76
STA AV		0.20	0.24	0.45	1.09	2.11	3.29	1.65	1.08	1.15	0.41	0.30	0.26

NOTES: Precipitation from rain gage W-2A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.005	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.483	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0167	0.0	0.0	0.0003	0.0	0.0	0.0002	0.0	0.0	0.0	0.0
INCHES	0.0	0.100	0.0	0.0	0.002	0.0	0.0	0.001	0.0	0.0	0.0	0.0
STA AV	0.009	0.073	0.136	0.009	0.100	0.091	0.100	0.000	0.009	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CPS to IN/DAY, multiply by 0.20697.

NEWELL, SOUTH DAKOTA WATERSHED W-5

LOCATION: Butte Co., South Dakota, 34 mi. NE of Newell, South Moreau River Watershed.

AREA: 46.00 Acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-5	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.16	0.18	0.25	1.29	3.05	6.39	3.56	3.38	2.03	0.06	0.82	0.86	22.03
	Q	0.0	0.124	0.0	0.0	0.076	0.277	0.091	0.059	0.073	0.0	0.0	0.0	0.700
STA AV	P	0.24	0.30	0.60	1.44	2.65	4.47	1.81	1.53	1.15	0.40	0.34	0.37	15.28
	Q	0.018	0.029	0.118	0.018	0.089	0.280	0.045	0.096	0.007	0.0	0.0	0.0	0.700

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 7%, good - 93%; Production of cover: 3400 pounds per acre of oven-dry material. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.5-4. Precipitation from rain gage W-5A. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-5	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	0.21S	
2	0.0	0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.03S	
3	0.0	0.0	0.0	0.0	0.03S	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.35S	0.0	
5	0.02S	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.07S	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.08S	0.0	
7	0.0	0.0	0.0	0.0	0.08S	0.01	0.13	0.0	0.0	0.13	0.0	0.01S	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03	0.0	0.01S	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.12S	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.02S	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11S	0.0	
12	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06S	
13	0.0	0.0	0.0	0.14S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.10S	0.01S	0.12	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
15	0.03S	0.0	0.0	0.0	0.0	1.76	0.74	0.0	0.13	0.60	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.19	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.40	0.0	0.0	0.0	0.09S	
18	0.0	0.0	0.13S	0.0	0.02	0.0	0.0	0.0	0.45	0.0	0.0	0.01S	0.0	
19	0.0	0.10S	0.0	0.07S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	
20	0.0	0.0	0.0	0.0	0.02	0.02	0.52	0.0	0.0	0.0	0.0	0.0	0.01S	
21	0.0	0.0	0.0	0.0	0.45S	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.02S	
22	0.0	0.0	0.0	0.0	0.05S	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	1.53	0.0	2.10	0.0	0.0	0.0	0.0	
24	0.0	0.03S	0.0	0.0	0.0	0.0	1.43	0.35	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.02S	0.0	0.0	0.0	0.02	0.12	0.0	0.0	0.0	0.03S	0.12S	
26	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.03S	0.0	0.02S	
27	0.05S	0.0	0.0	0.43S	0.20	0.0	0.0	1.10	0.0	0.0	0.0	0.0	0.02S	
28	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04S	
29	0.0	0.0	0.0	0.0	0.13	0.52	0.93	0.0	0.0	0.0	0.0	0.0	0.01S	
30	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04S	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.16	0.18	0.25	1.29	3.05	6.39	3.56	3.38	2.03	0.06	0.82	0.86	
STA AV		0.24	0.30	0.60	1.44	2.65	4.47	1.81	1.53	1.15	0.40	0.34	0.37	

NOTES: Precipitation from rain gage W-5A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.139	0.0	0.0	0.0	0.048	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.093	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.008	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.301	0.0	0.106	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.104	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.089	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.236	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.002	0.170	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0083	0.0	0.0	0.0047	0.0178	0.0057	0.0037	0.0047	0.0	0.0	0.0
INCHES	0.0	0.124	0.0	0.0	0.076	0.277	0.091	0.059	0.073	0.0	0.0	0.0
STA AV	0.018	0.029	0.118	0.018	0.089	0.280	0.045	0.096	0.007	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.51743.

NEWELL, SOUTH DAKOTA WATERSHED W-7

LOCATION: Butte Co., South Dakota, 35 mi. NE of Newell, Tributary Trail Creek, South Moreau Watershed.

AREA: 160.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							NEWELL, SOUTH DAKOTA WATERSHED W-7							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.15	0.20	0.27	0.77	2.05	4.42	2.71	1.79	1.94	0.08	0.80	0.66	15.84
	O	0.001	0.007	0.099	0.0	0.0	0.021	0.041	0.0	0.017	0.0	0.0	0.0	0.186
STA AV	P	0.21	0.28	0.57	1.22	2.43	3.92	1.73	1.37	1.03	0.37	0.34	0.33	13.80
	O	0.018	0.019	0.136	0.018	0.036	0.111	0.031	0.018	0.002	0.0	0.0	0.0	0.390

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 82%, fair - 18%; Degree of grazing: moderate. Production of cover: 3000 pounds per acre of oven-dry material. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.7-4. Precipitation from rain gage W-7A. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches) NEWELL, SOUTH DAKOTA WATERSHED W-7													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S	0.0	0.15S	
2	0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.05S	
3	0.0	0.0	0.0	0.03S	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.40S	0.0	
5	0.02S	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.07S	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.08S	0.0	
7	0.0	0.0	0.0	0.02S	0.01	0.10	0.0	0.0	0.13	0.0	0.01S	0.0	
8	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.03	0.0	0.01S	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.13S	0.0	
10	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.02S	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	
12	0.0	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07S	
13	0.0	0.0	0.0	0.07S	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.05S	0.01S	0.12	0.0	0.0	0.19	0.0	0.0	0.0	0.0	
15	0.03S	0.0	0.0	0.0	0.85	0.57	0.0	0.03	0.60	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.46	0.0	0.0	0.0	0.09S	
18	0.0	0.0	0.20S	0.0	0.02	0.0	0.0	0.08	0.0	0.0	0.01S	0.0	
19	0.0	0.12S	0.0	0.06S	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.03S	
20	0.0	0.0	0.0	0.0	0.02	0.46	0.0	0.0	0.0	0.0	0.0	0.01S	
21	0.0	0.0	0.0	0.23S	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04S	
22	0.0	0.0	0.0	0.02S	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	
23	0.0	0.0	0.0	0.0	0.0	1.16	0.0	1.03	0.0	0.0	0.0	0.0	
24	0.0	0.03S	0.0	0.0	0.0	1.00	0.28	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.02S	0.0	0.0	0.02	0.13	0.0	0.0	0.0	0.03S	0.10S	
26	0.06S	0.02S	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.03S	0.0	0.02S	
27	0.0	0.0	0.0	0.30S	0.26	0.0	0.80	0.0	0.0	0.0	0.0	0.02S	
28	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	
29	0.0	0.0	0.0	0.0	0.0	0.26	0.73	0.0	0.0	0.0	0.0	0.01S	
30	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	
31	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.15	0.20	0.27	0.77	2.05	4.42	2.71	1.79	1.94	0.08	0.80	0.66
STA AV		0.21	0.28	0.57	1.22	2.43	3.92	1.73	1.37	1.03	0.37	0.34	0.33

NOTES: Precipitation from rain gage W-7A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.665	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.047	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.114	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.235	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.121	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0002	0.0016	0.0215	0.0	0.0	0.0047	0.0089	0.0	0.0038	0.0	0.0	0.0
INCHES	0.001	0.007	0.099	0.0	0.0	0.021	0.041	0.0	0.017	0.0	0.0	0.0
STA AV	0.018	0.019	0.136	0.018	0.036	0.111	0.031	0.018	0.002	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.14876.

NEWELL, SOUTH DAKOTA WATERSHED W-12

LOCATION: Butte Co., South Dakota, 9 mi. East of Newell, Belle Fourche River Watershed.

AREA: 90.00 acres

		MONTHLY PRECIPITATION AND RUNOFF (inches)						NEWELL, SOUTH DAKOTA WATERSHED W-12							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	0.17	0.25	0.32	1.00	1.25	3.39	1.47	0.91	1.77	0.14	0.54	0.56	11.77	
	O	0.017	0.042	0.301	0.005	0.004	0.017	0.007	0.0	0.0	0.0	0.005	0.0	0.398	
STA AV	P	0.28	0.26	0.64	1.34	2.47	3.56	1.62	1.05	1.30	0.47	0.34	0.30	13.61	
	O	0.047	0.058	0.400	0.191	0.837	0.729	0.119	0.055	0.018	0.0	0.010	0.009	2.473	

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 94%, fair - 6%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.12-4. Precipitation from rain gage W-12A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)		NEWELL, SOUTH DAKOTA WATERSHED W-12											
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S	0.0	0.22S
2		0.0	0.0	0.0	0.06S	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05S
3		0.0	0.0	0.0	0.34S	0.0	0.10	0.0	0.0	0.04	0.0	0.0	0.0
4		0.0	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.12S	0.0
5		0.02S	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.05S	0.0
6		0.0	0.0	0.0	0.02S	0.06	0.23	0.0	0.0	0.0	0.0	0.04S	0.0
7		0.0	0.0	0.0	0.02S	0.0	0.11	0.0	0.0	0.05	0.0	0.0	0.0
8		0.0	0.0	0.0	0.06S	0.04	0.26	0.0	0.04	0.0	0.0	0.0	0.0
9		0.0	0.0	0.01S	0.0	0.0	0.44	0.0	0.01	0.0	0.0	0.24S	0.0
10		0.0	0.0	0.03S	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
11		0.0	0.03S	0.06S	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
12		0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.03S
13		0.0	0.0	0.0	0.09S	0.01	0.12	0.0	0.0	0.0	0.0	0.0	0.0
14		0.0	0.0	0.09S	0.0	0.10	0.0	0.0	0.10	0.03	0.0	0.0	0.0
15		0.0	0.0	0.0	0.0	0.05	0.42	0.0	0.04	0.65	0.01S	0.0	0.0
16		0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.72	0.0	0.0	0.0
17		0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.22	0.0	0.0	0.0	0.04S
18		0.0	0.01S	0.13S	0.0	0.01	0.23	0.0	0.11	0.0	0.0	0.0	0.0
19		0.0	0.09S	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.07S	0.01S
20		0.0	0.01S	0.0	0.0	0.04	0.15	0.0	0.0	0.0	0.0	0.0	0.01S
21		0.0	0.0	0.0	0.29S	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.03S
22		0.0	0.0	0.0	0.05S	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.03S
23		0.0	0.0	0.0	0.0	0.01	0.23	0.0	0.37	0.0	0.0	0.0	0.0
24		0.0	0.04S	0.0	0.0	0.0	0.40	0.28	0.0	0.0	0.0	0.0	0.0
25		0.01S	0.01S	0.0	0.05	0.03	0.42	0.61	0.0	0.0	0.0	0.02S	0.05S
26		0.07S	0.04S	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.08S	0.0	0.01S
27		0.02S	0.0	0.0	0.0	0.10	0.0	0.30	0.0	0.0	0.0	0.0	0.04S
28		0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S
29		0.0	0.0	0.0	0.0	0.05	0.05	0.03	0.0	0.0	0.0	0.0	0.01S
30		0.0	0.0	0.0	0.0	0.02	0.0	0.05	0.0	0.0	0.0	0.0	0.02S
31		0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		0.17	0.25	0.32	1.00	1.25	3.39	1.47	0.91	1.77	0.14	0.54	0.56
STA AV		0.28	0.26	0.64	1.34	2.47	3.56	1.62	1.05	1.30	0.47	0.34	0.30

NOTES: Precipitation from rain gage W-12A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.291	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.159	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.019	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.064	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.068	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.310	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.144	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.072	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0021	0.0055	0.0367	0.0006	0.0005	0.0021	0.0009	0.0	0.0	0.0	0.0006	0.0
INCHES	0.017	0.042	0.301	0.005	0.004	0.017	0.007	0.0	0.0	0.0	0.005	0.0
STA AV	0.047	0.058	0.400	0.191	0.837	0.729	0.119	0.055	0.018	0.0	0.010	0.009

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.26446.

NEWELL, SOUTH DAKOTA WATERSHED W-13

LOCATION: Meade Co., South Dakota, 26 mi. East of Newell, South Fork Sulphur Creek, Cheyenne River Watershed.

AREA: 160.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													
NEWELL, SOUTH DAKOTA WATERSHED W-13													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968 P	0.19	0.23	0.33	0.74	1.87	5.06	0.99	0.96	1.48	0.07	0.37	0.52	12.81
Q	0.004	0.154	0.055	0.0	0.010	0.111	0.002	0.003	0.0	0.0	0.0	0.0	0.339
STA AV P	0.24	0.26	0.50	1.14	2.45	3.49	1.37	1.06	0.96	0.41	0.29	0.32	12.49
Q	0.000	0.069	0.214	0.027	0.319	0.337	0.000	0.000	0.0	0.0	0.0	0.0	0.967

NOTES: Watershed conditions: 100% rangeland; Condition classes: excellent - 8%, good - 67%, fair - 25%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.13-4. Thiessen weighted precipitation from gages W-13B and W-13C. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)													
NEWELL, SOUTH DAKOTA WATERSHED W-13													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.14S	
2	0.0	0.0	0.0	0.06S	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.03S	0.0	0.29	0.0	0.0	0.03	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.05S	0.0	
5	0.03S	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.06S	0.0	
6	0.0	0.0	0.0	0.0	0.06	0.48	0.0	0.0	0.0	0.0	0.06S	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.04	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.01S	0.0	0.0	0.57	0.0	0.01	0.0	0.0	0.16S	0.0	
10	0.0	0.0	0.02S	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.03S	0.03S	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.13S	0.01	0.10	0.0	0.0	0.0	0.0	0.0	0.07S	
14	0.0	0.0	0.06S	0.0	0.16	0.0	0.0	0.10	0.11	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.47	0.14	0.0	0.05	0.33	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.35	0.0	0.0	0.0	0.05S	
18	0.0	0.01S	0.16S	0.0	0.08	0.16	0.0	0.06	0.0	0.0	0.0	0.0	
19	0.0	0.10S	0.03S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	0.01S	
20	0.0	0.0	0.02S	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.01S	
21	0.0	0.0	0.0	0.30S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.03S	
22	0.0	0.0	0.0	0.17S	0.74	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	
23	0.0	0.0	0.0	0.0	0.02	1.55	0.0	0.34	0.0	0.0	0.0	0.0	
24	0.0	0.05S	0.0	0.0	0.01	0.96	0.24	0.0	0.0	0.0	0.0	0.0	
25	0.02S	0.02S	0.0	0.05	0.0	0.23	0.04	0.0	0.0	0.0	0.02S	0.07S	
26	0.08S	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.02S	0.0	0.01S	
27	0.0	0.0	0.0	0.0	0.20	0.0	0.32	0.0	0.0	0.0	0.0	0.02S	
28	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	
29	0.0	0.0	0.0	0.0	0.03	0.07	0.03	0.0	0.0	0.0	0.0	0.01S	
30	0.0		0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.0	0.0	0.04S	
31	0.0		0.0		0.03		0.0	0.0		0.0		0.0	
TOTAL	0.19	0.23	0.33	0.74	1.87	5.06	0.99	0.96	1.48	0.07	0.37	0.52	
STA AV	0.24	0.26	0.50	1.14	2.45	3.49	1.37	1.06	0.96	0.41	0.29	0.32	

NOTES: Thiessen weighted precipitation from gages W-13B and W-13C. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-13												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.027	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.040	0.0	0.020	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.437	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.181	0.007	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.013	0.007	0.0	0.0	0.0	0.0	0.0
27	0.0	0.518	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0009	0.0357	0.0119	0.0	0.0022	0.0249	0.0004	0.0007	0.0	0.0	0.0	0.0
INCRS	0.004	0.154	0.055	0.0	0.010	0.111	0.002	0.003	0.0	0.0	0.0	0.0
STA AV	0.000	0.069	0.214	0.027	0.319	0.337	0.000	0.000	0.0	0.0	0.0	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.14876.

NEWELL, SOUTH DAKOTA WATERSHED W-14

LOCATION: Butte Co., South Dakota, 16 mi. SE of Newell, Belle Fourche River Watershed.

AREA: 35.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													NEWELL, SOUTH DAKOTA WATERSHED W-14	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	0.19	0.36	0.54	0.95	1.10	3.63	2.02	1.08	1.72	0.13	0.62	0.98	13.32
	O	0.026	0.014	0.161	0.038	0.0	0.003	0.011	0.008	0.0	0.0	0.0	0.0	0.261
STA AV	P	0.40	0.31	0.69	1.70	2.37	3.29	1.77	1.10	1.19	0.51	0.39	0.41	14.15
	O	0.084	0.047	0.233	0.113	0.264	0.346	0.137	0.019	0.009	0.0	0.009	0.0	1.260

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 54%, fair - 46%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.14-4. Precipitation from rain gage W-14A. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968	DAILY PRECIPITATION (inches)												NEWELL, SOUTH DAKOTA WATERSHED W-14	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S	0.0	0.32S		
2	0.0	0.0	0.0	0.02S	0.10	0.0	0.0	0.0	0.33	0.0	0.0	0.08S		
3	0.0	0.0	0.0	0.18S	0.0	0.12	0.0	0.0	0.05	0.0	0.02S	0.0		
4	0.0	0.0	0.0	0.01S	0.0	0.13	0.0	0.24	0.0	0.0	0.02S	0.10S		
5	0.05S	0.0	0.0	0.01S	0.0	0.14	0.0	0.0	0.0	0.0	0.05S	0.01S		
6	0.0	0.0	0.0	0.0	0.05	0.20	0.0	0.0	0.0	0.0	0.05S	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.03	0.02S	0.03S	0.0		
8	0.0	0.0	0.0	0.03S	0.05	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.01S	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.32S	0.0		
10	0.0	0.0	0.01S	0.0	0.0	0.03	0.0	0.05	0.0	0.0	0.0	0.0		
11	0.0	0.08S	0.02S	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.20S	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.05S	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.0	0.01	0.35	0.0	0.03	0.49	0.01S	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.74	0.0	0.03S	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.42	0.0	0.0	0.0	0.01S		
18	0.0	0.01S	0.28S	0.0	0.03	0.15	0.0	0.0	0.0	0.0	0.05S	0.02S		
19	0.0	0.01S	0.12S	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01S		
20	0.0	0.01S	0.05S	0.0	0.04	0.20	0.0	0.0	0.0	0.0	0.0	0.01S		
21	0.0	0.0	0.0	0.25S	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.03S		
22	0.0	0.0	0.0	0.15S	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.15S		
23	0.0	0.02S	0.0	0.0	0.0	0.04	0.0	0.28	0.0	0.0	0.0	0.0		
24	0.0	0.15S	0.0	0.0	0.0	0.97	0.52	0.0	0.0	0.0	0.0	0.0		
25	0.06S	0.01S	0.0	0.03	0.0	0.53	0.34	0.0	0.0	0.0	0.05S	0.08S		
26	0.03S	0.07S	0.0	0.02	0.0	0.0	0.48	0.0	0.0	0.05S	0.0	0.02S		
27	0.02S	0.0	0.0	0.05	0.07	0.0	0.63	0.0	0.0	0.0	0.0	0.04S		
28	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S		
29	0.0	0.0	0.0	0.0	0.05	0.15	0.0	0.0	0.0	0.0	0.0	0.02S		
30	0.0		0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.06S		
31	0.0		0.0		0.01		0.0	0.0		0.0		0.0		
TOTAL		0.19	0.36	0.54	0.95	1.10	3.63	2.02	1.08	1.72	0.13	0.62	0.98	
STA AV		0.40	0.31	0.69	1.70	2.37	3.29	1.77	1.10	1.19	0.51	0.39	0.41	

NOTES: Precipitation from rain gage W-14A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-14												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0
18	0.0	0.0	0.044	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0
19	0.0	0.0	0.104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.038	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.054	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.009	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0012	0.0007	0.0076	0.0019	0.0	0.0001	0.0005	0.0004	0.0	0.0	0.0	0.0
INCHES	0.026	0.014	0.161	0.038	0.0	0.003	0.011	0.008	0.0	0.0	0.0	0.0
STA AV	0.084	0.047	0.233	0.113	0.264	0.346	0.137	0.019	0.009	0.0	0.009	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.68005.

NEWELL, SOUTH DAKOTA WATERSHED W-15

LOCATION: Butte Co., South Dakota, 16 mi. SE of Newell, Belle Fourche River Watershed.

AREA: 115.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														NEWELL, SOUTH DAKOTA WATERSHED W-15	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	0.26	0.28	0.62	0.80	1.08	3.53	2.05	1.04	1.55	0.11	0.52	0.83	12.67	
	O	0.071	0.042	0.076	0.039	0.0	0.023	0.008	0.002	0.0	0.0	0.0	0.0	0.261	
STA AV	P	0.44	0.28	0.72	1.69	2.47	3.33	1.86	1.07	1.17	0.54	0.40	0.38	14.34	
	O	0.070	0.022	0.116	0.122	0.345	0.293	0.155	0.009	0.009	0.0	0.009	0.0	1.151	

NOTES: Watershed conditions: 100% rangeland; Condition classes: good - 41%, fair - 59%; Degree of grazing: moderate. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 65.15-4. Precipitation and runoff records began January 1958. Precipitation and runoff STA AV based on 11 yr (1958-68) record period. For long-time precipitation records, see U.S. Weather Bureau Station records at Newell, South Dakota.

1968 DAILY PRECIPITATION (inches)													
NEWELL, SOUTH DAKOTA WATERSHED W-15													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	0.0	0.26S	
2	0.0	0.0	0.0	0.02S	0.05	0.0	0.0	0.0	0.30	0.0	0.0	0.05S	
3	0.0	0.0	0.0	0.13S	0.0	0.0	0.0	0.0	0.02	0.0	0.02S	0.0	
4	0.0	0.0	0.0	0.01S	0.0	0.11	0.0	0.10	0.0	0.0	0.04S	0.09S	
5	0.04S	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.06S	0.01S	
6	0.0	0.0	0.0	0.04S	0.05	0.21	0.0	0.0	0.0	0.0	0.05S	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.01	0.02S	0.03S	0.0	
8	0.0	0.0	0.0	0.03S	0.03	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.01S	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.22S	0.0	
10	0.0	0.0	0.02S	0.0	0.0	0.03	0.0	0.04	0.0	0.0	0.0	0.0	
11	0.0	0.08S	0.05S	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.05S	0.02	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.09S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.01	0.40	0.0	0.03	0.61	0.01S	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.57	0.0	0.02S	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.57	0.0	0.0	0.0	0.01S	
18	0.0	0.01S	0.28S	0.0	0.03	0.22	0.0	0.0	0.0	0.0	0.04S	0.02S	
19	0.0	0.01S	0.12S	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01S	
20	0.0	0.01S	0.05S	0.0	0.04	0.11	0.0	0.0	0.0	0.0	0.0	0.01S	
21	0.0	0.0	0.0	0.35S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.03S	
22	0.0	0.0	0.0	0.03S	0.60	0.0	0.0	0.0	0.0	0.0	0.0	0.22S	
23	0.0	0.02S	0.0	0.0	0.01	0.03	0.0	0.23	0.0	0.0	0.0	0.0	
24	0.0	0.08S	0.0	0.0	0.0	0.98	0.48	0.0	0.0	0.0	0.0	0.0	
25	0.10S	0.01S	0.0	0.03	0.03	0.58	0.35	0.0	0.0	0.0	0.04S	0.02S	
26	0.07S	0.06S	0.0	0.03	0.0	0.0	0.49	0.0	0.0	0.05S	0.0	0.01S	
27	0.02S	0.0	0.0	0.08	0.10	0.0	0.68	0.0	0.0	0.0	0.0	0.04S	
28	0.01S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S	
29	0.0	0.0	0.0	0.0	0.05	0.13	0.0	0.0	0.0	0.0	0.0	0.01S	
30	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.03S	
31	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.26	0.28	0.62	0.80	1.08	3.53	2.05	1.04	1.55	0.11	0.52	0.83
STA AV		0.44	0.28	0.72	1.69	2.47	3.33	1.86	1.07	1.17	0.54	0.40	0.38

NOTES: Precipitation from rain gage W-15A. STA AV based on 11 yr (1958-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NEWELL, SOUTH DAKOTA WATERSHED W-15												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0	0.0	0.0
18	0.0	0.0	0.135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.232	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.343	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.048	0.0	0.111	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0111	0.0070	0.0118	0.0063	0.0	0.0037	0.0012	0.0003	0.0	0.0	0.0	0.0
INCHES	0.071	0.042	0.076	0.039	0.0	0.023	0.008	0.002	0.0	0.0	0.0	0.0
STA AV	0.070	0.022	0.116	0.122	0.345	0.293	0.155	0.009	0.009	0.0	0.009	0.0

NOTES: STA AV based on 11 yr (1958-68) record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 0.20697.

NORTH DANVILLE, VERMONT WATERSHED W-1

LOCATION: Caledonia County, Vermont, 5 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.

AREA: 10611.20 acres 16.58 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-1													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37	46.52													
	O	0.767	0.713	3.580	4.308	2.007	1.541	0.744	0.291	0.383	0.564	1.261	1.239	17.398													
STA AV	P	2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58	44.66													
	O	0.867	0.799	1.696	6.052	2.410	0.909	0.492	0.406	0.425	1.352	1.545	1.338	18.289													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
	Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.											
1968	4-25	0.027	4-25	0.026	4-25	0.051	4-25	0.144	4-24	0.276	3-23	0.449	3-22	0.773	3-28	1.991											
MAXIMUMS FOR PERIOD OF RECORD																											
	10-24	0.100	10-24	0.100	10-24	0.200	10-24	0.500	10-24	0.780	10-24	1.150	10-24	1.450	4-12	3.860											
	1959		1959		1959		1959		1959		1959		1959		1960												

NOTES: Watershed conditions: Predominately hardwood forest, 64%; cultivated-16% in long hay rotations and about 1% in row crops; total 17%; pasture, largely bluegrass 15%; idle land in grass and woody plants, 3%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 67.1-4. Precipitation records began January 1, 1959. Runoff records began October 1959. Part year values not included in STA AV. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY AIR TEMPERATURE (degrees F)														NORTH DANVILLE, VERMONT WATERSHED W-1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min			max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	18 -20	27 16	30 23	49 27	56 40	72 52	86 60	72 56	74 39	72 42	42 20	24 4		2	4 -27	41 29	26 10	40 25	54 40	62 53	77 56	74 52	75 51	72 49	47 30	29 20	
3	12 -3	38 17	10 -2	48 28	56 38	68 53	69 52	76 46	68 53	66 52	46 34	32 25		4	19 10	18 10	32 4	50 30	47 40	69 48	71 46	79 52	68 45	54 37	43 24	32 24	
5	13 -14	14 9	24 4	54 24	48 34	77 45	73 50	78 53	68 49	43 31	45 22	33 25		6	13 -13	20 8	29 -3	36 18	56 36	79 57	68 48	62 55	57 53	48 28	43 22	26 19	
7	11 -13	19 4	20 -8	49 19	45 28	75 54	72 45	75 55	70 43	43 38	38 30	26 11		8	-13 -22	13 -2	33 -4	53 25	60 25	68 53	80 52	76 47	70 38	46 36	33 28	20 5	
9	-7 -27	22 -11	45 22	50 35	63 42	62 52	83 53	71 59	70 40	54 30	36 28	8 -4		10	-1 -23	12 -1	38 22	47 30	62 42	55 48	66 50	70 49	67 50	50 28	30 29	6 -15	
11	-2 -24	3 -13	36 14	49 30	66 36	54 47	77 43	60 45	59 56	52 36	32 27	12 -18		12	-9 -25	14 -14	28 3	64 28	56 46	68 52	78 54	69 40	61 43	60 35	28 22	33 8	
13	22 -12	1 -14	26 15	72 38	68 42	67 55	79 54	76 45	52 46	60 33	31 27	40 30		14	24 -7	12 1	22 0	73 41	70 38	72 46	82 55	79 52	60 40	62 28	26 20	35 30	
15	32 4	14 -2	38 -2	55 40	74 40	87 48	86 62	61 45	66 34	68 39	30 21	30 8		16	3 -21	15 -3	49 31	54 42	74 43	62 50	84 64	64 38	75 41	75 43	30 18	8 4	
17	8 -24	24 1	41 36	62 40	58 50	54 48	86 65	76 54	76 50	72 40	22 16	13 4		18	25 -5	10 -2	46 37	63 33	55 48	67 46	86 66	62 37	74 50	73 49	33 22	24 12	
19	32 10	9 -7	58 36	64 38	53 46	66 44	84 65	65 33	79 45	59 47	36 26	24 12		20	30 21	6 -12	46 36	52 42	47 38	54 40	70 50	68 52	78 49	58 40	26 20	26 18	
21	31 12	-4 -14	43 36	66 40	54 37	62 40	74 46	66 53	78 50	47 40	25 17	29 24		22	22 -3	16 -16	38 31	62 48	56 36	64 40	82 55	59 40	74 54	56 32	34 24	27 22	
23	27 16	12 -4	38 28	59 40	56 38	61 51	72 53	69 34	70 48	57 33	32 19	31 24		24	14 -6	22 -12	28 19	51 38	60 34	59 50	63 49	70 53	70 44	55 29	40 26	26 -5	
25	10 -10	25 -3	30 12	52 38	55 43	70 54	73 58	81 58	71 57	48 41	34 23	15 -16		26	22 0	28 -6	47 12	44 31	54 38	60 51	73 47	61 44	65 52	41 35	24 10	-9 -24	
27	34 -4	26 -5	50 30	38 33	66 34	56 50	75 45	53 37	64 42	45 30	28 12	5 -26		28	30 18	34 11	52 26	44 30	72 33	56 46	73 52	54 46	59 41	43 33	30 6	28 -1	
29	26 22	36 26	60 33	54 26	58 34	70 47	61 44	60 38	49 34	41 30	42 20	30 4		30	34 26		44 32	60 32	71 48	78 56	64 39	66 37	52 31	35 30	22 9	16 -6	
31	31 16		61 26		70 48		73 37	69 40		32 28		16 -8		1 AV	16 -4	17 0	37 18	52 32	59 39	63 47	75 52	68 46	65 44	54 36	32 21	22 6	
MEAN	6.0	8.4	27.9	42.0	49.3	55.7	63.8	57.6	54.7	45.4	26.8	14.6		STA AV	23 4	24 3	35 15	47 28	59 38	72 47	75 52	72 49	65 42	54 35	39 22	25 9	

NOTES: Temperature data is from R-12 station. Readings taken daily from hygrothermograph charts. STA AV based on 1960-68 record period.

1968 DAILY PRECIPITATION (inches) NORTH DANVILLE, VERMONT WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.35	0.29	0.0	0.0	0.02	0.24	0.0	0.0	0.06	0.0
2	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.01	0.07	0.0	0.04	0.10
3	0.12	0.35	0.03	0.0	0.03	0.02	0.0	0.0	0.03	0.40	0.0	0.02
4	0.15	0.04	0.0	0.14	0.17	0.10	0.0	0.0	0.0	0.49	0.0	1.22
5	0.07	0.06	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.59
6	0.0	0.05	0.0	0.0	0.0	0.0	0.31	0.05	0.45	0.0	0.0	0.10
7	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.49	0.29	0.01
8	0.01	0.0	0.0	0.01	0.0	0.0	0.01	0.05	0.0	0.04	0.62	0.0
9	0.0	0.0	0.0	0.10	0.33	1.03	0.71	0.49	0.0	0.0	0.04	0.01
10	0.0	0.22	0.0	0.09	0.0	0.41	0.64	0.08	0.0	0.0	0.35	0.04
11	0.0	0.18	0.0	0.08	0.0	0.0	0.0	0.0	1.64	0.14	0.01	0.0
12	0.0	0.02	0.49	0.0	0.23	0.19	0.0	0.0	0.51	0.0	0.26	0.03
13	0.0	0.07	0.47	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.54	0.0
14	0.01	0.10	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.04	0.29
15	0.23	0.22	0.0	0.40	0.0	0.46	0.0	0.0	0.0	0.0	0.35	0.58
16	0.0	0.0	0.04	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.05	0.09
17	0.0	0.11	0.76	0.0	0.79	0.09	0.0	0.75	0.0	0.0	0.01	0.08
18	0.0	0.12	0.14	0.0	0.46	0.01	0.0	0.0	0.0	0.0	1.07	0.01
19	0.14	0.04	0.0	0.0	0.13	0.40	0.12	0.0	0.0	0.56	0.30	0.11
20	0.0	0.04	0.0	0.0	0.91	0.17	0.0	1.51	0.0	0.0	0.26	0.38
21	0.10	0.01	0.13	0.0	0.0	0.02	0.0	0.03	0.0	0.0	0.02	0.0
22	0.0	0.13	0.50	0.0	0.03	0.14	0.0	0.0	0.0	0.0	0.31	0.08
23	0.25	0.04	0.84	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.04	0.53
24	0.0	0.0	0.25	1.51	0.0	0.37	0.06	0.13	0.0	0.0	0.14	0.15
25	0.0	0.0	0.02	0.75	0.0	0.02	0.03	0.44	0.59	0.46	0.09	0.04
26	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.01	0.0	0.08	0.04	0.0
27	0.0	0.0	0.0	0.43	0.0	0.01	0.08	0.0	0.06	0.0	0.14	0.01
28	0.11	0.0	0.0	0.02	0.0	0.21	0.60	0.0	0.08	0.57	0.69	0.84
29	0.14	0.11	0.0	0.0	0.16	0.70	0.02	0.0	0.02	0.05	0.39	0.04
30	0.25	0.0	0.0	0.0	0.12	0.36	0.0	0.0	0.0	0.04	0.0	0.02
31	0.04	0.0	0.0	0.03	0.03	0.0	0.0	0.0	0.0	0.71	0.0	0.0
TOTAL	2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37
STA AV	2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58

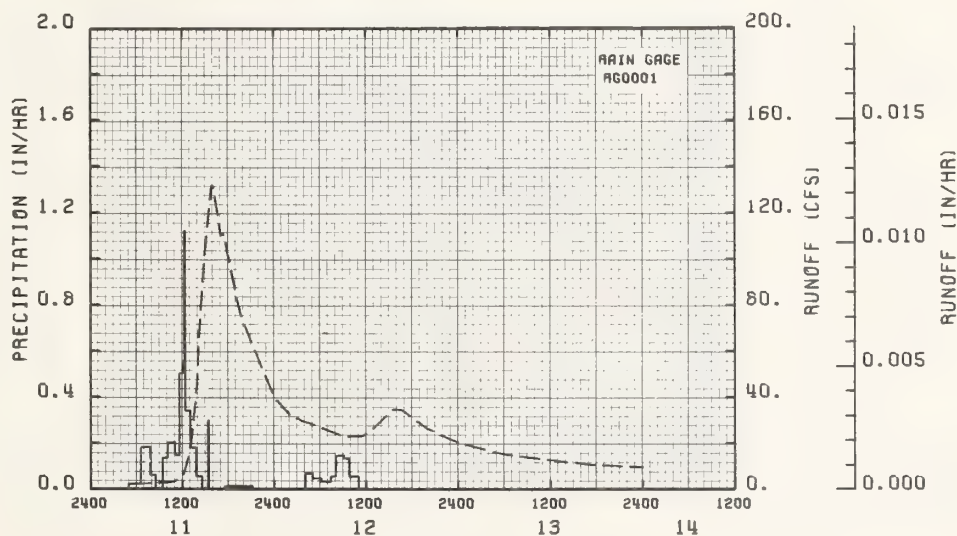
NOTES: Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of January, February, and December during which all precipitation is snow or rain on snow. STA AV based on 10 yr (1959-68) record period.

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	14.58	8.17	8.89	161.85	28.13	24.43	47.53	3.88	2.51	2.87	7.73	20.89
2	16.77	9.43	7.37	82.36	24.80	17.39	19.93	4.20	2.28	2.61	8.74	20.85
3	14.71	26.76	7.06	76.52	23.37	17.35	12.93	3.69	2.32	2.61	8.29	19.23
4	14.71	32.31	6.84	90.07	29.44	14.11	10.77	3.18	2.51	5.01	6.72	19.61
5	13.92	20.55	6.30	141.75	25.02	12.36	9.25	2.74	2.35	14.44	6.37	48.45
6	13.30	15.22	5.94	75.32	21.18	10.13	14.32	2.42	2.95	8.20	6.01	27.87
7	12.53	12.99	5.62	65.55	18.70	9.16	12.25	3.42	5.56	14.33	6.08	21.06
8	10.78	12.17	5.66	68.50	17.66	9.16	9.63	3.11	3.41	15.60	12.40	16.86
9	11.92	11.50	5.66	78.63	17.78	23.35	8.27	2.88	2.56	8.90	11.57	12.89
10	11.86	10.81	6.43	67.05	24.84	70.56	35.54	4.56	2.30	6.76	11.20	12.29
11	12.16	10.35	6.72	55.16	18.74	27.22	19.40	3.09	37.65	6.70	11.29	11.71
12	13.51	9.99	6.60	51.08	18.57	24.25	11.43	2.44	27.74	6.63	9.91	14.75
13	15.79	9.29	6.68	54.76	18.17	23.84	9.09	2.25	13.02	5.82	10.18	15.83
14	17.73	8.66	6.04	53.27	14.75	19.06	8.13	2.07	7.70	4.95	9.67	20.13
15	15.80	8.66	5.66	59.42	13.36	17.87	6.97	1.78	5.71	4.67	9.18	24.34
16	11.81	8.66	6.99	65.84	12.28	27.43	6.11	1.73	4.67	4.48	10.10	22.04
17	9.96	8.52	39.49	39.97	59.07	18.97	9.47	3.15	3.91	4.25	9.48	18.88
18	9.12	7.10	70.47	33.73	42.55	17.48	11.72	6.16	3.58	4.08	13.92	17.14
19	8.43	7.67	88.53	30.28	74.33	17.36	9.01	3.03	3.37	4.56	77.80	15.80
20	7.94	7.55	99.26	27.09	105.42	33.30	8.46	7.18	3.07	15.59	32.65	15.41
21	7.61	7.30	94.03	25.42	62.44	19.35	5.81	16.65	2.61	8.21	19.84	15.07
22	7.65	7.39	158.12	23.67	40.45	16.55	4.61	5.94	2.54	6.18	17.00	14.77
23	8.41	7.06	153.25	22.02	30.36	16.73	3.89	4.01	2.28	5.43	15.13	16.44
24	8.25	7.06	148.70	57.04	24.04	22.07	3.76	3.40	2.30	5.19	15.63	16.30
25	8.17	7.39	66.71	176.25	21.09	34.08	4.81	10.41	4.43	6.35	28.45	15.69
26	7.84	8.24	61.13	55.91	18.06	21.33	3.68	6.19	5.12	9.52	18.17	14.04
27	7.17	8.99	76.88	63.47	16.01	18.13	3.32	4.04	3.48	7.29	15.58	11.19
28	7.06	9.49	88.17	50.76	14.32	19.01	7.18	3.53	3.20	17.20	14.56	12.31
29	7.06	8.70	112.97	36.43	13.54	31.17	6.40	3.30	3.04	22.10	99.61	15.86
30	7.50	124.74	31.36	18.67	53.99	18.67	4.48	2.76	2.72	11.89	38.86	12.48
31	7.96	108.91	27.70	27.70	27.70	27.70	3.60	2.53	2.53	9.07	12.06	12.06
MEAN	11.033	10.958	51.478	64.017	28.865	22.906	10.702	4.183	5.697	8.112	18.738	17.814
INCHES	0.767	0.713	3.580	4.308	2.007	1.541	0.744	0.291	0.383	0.564	1.261	1.239
STA AV	0.867	0.799	1.696	6.052	2.410	0.909	0.492	0.406	0.425	1.352	1.545	1.338

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002243. STA AV based on 9 yr (1960-68) record period.

1968	SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-1						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 13, 1968										
RG 01			RG 01							
9-11	0.0	0.001	9-11	455	0.0	0.0	9-11	631	2.35	0.0
				634	0.0242	0.04		802	2.84	0.0004
				746	0.1833	0.26		847	3.02	0.0006
				826	0.0600	0.30		940	3.02	0.0008
				921	0.0	0.30		1045	3.39	0.0011
WATERSHED CONDITIONS:										
Forest land, 64%; hay, 16%;				1000	0.1385	0.39		1200	5.66	0.0016
pastured land, 15%; idle				1059	0.2034	0.59		1253	15.18	0.0025
land with dense grass and				1136	0.1459	0.68		1319	26.66	0.0033
brush growth, 3%; seeded to				1201	0.5040	0.89		1341	38.79	0.0044
corn, 1%; and homesites, 1%.				1214	0.5538	1.01		1356	45.91	0.0054
				1222	1.1250	1.16		1406	63.56	0.0063
				1301	0.3385	1.38		1419	74.34	0.0077
				1345	0.1773	1.51		1456	102.09	0.0128
				1430	0.0533	1.55		1549	131.78	0.0225
				1519	0.0	1.55		1601	131.78	0.0250
				1527	0.3000	1.59		1704	109.88	0.0369
				1732	0.0	1.59		1717	111.48	0.0391
				1900	0.0136	1.61		1758	102.09	0.0459
				2109	0.0140	1.64		1941	74.34	0.0600
			9-12	400	0.0	1.64		2400	39.64	0.0830
				500	0.0700	1.71	9-12	223	30.88	0.0909
				606	0.0455	1.76		252	30.88	0.0923
				722	0.0316	1.80		334	29.43	0.0943
				804	0.0571	1.84		600	26.66	0.1007
				905	0.1475	1.99		856	22.80	0.1075
				946	0.1317	2.08		1117	22.80	0.1125
				1104	0.0538	2.15		1234	25.33	0.1154
								1428	31.62	0.1205
								1527	34.70	0.1236
								1618	34.70	0.1263
								1703	33.14	0.1287
								2000	25.99	0.1369
								2400	19.86	0.1455
							9-13	600	14.71	0.1552
								1200	12.48	0.1628
								1715	10.46	0.1684
								2400	9.36	0.1747

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000935. For 30-day antecedent rainfall and runoff, see tables of daily values.



EVENT OF SEPTEMBER 11 - 13, 1968
NORTH DANVILLE, VERMONT WATERSHED W-1

NORTH DANVILLE, VERMONT WATERSHED W-2

LOCATION: Caledonia County, Vermont: 5 mi. NW of St. Johnsbury; unnamed tributary of Sleepers River, Connecticut River basin.

AREA: 146.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-2													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64													
	O	0.424	0.361	0.782	0.888	0.687	0.510	0.214	0.180	0.104	0.217	0.233	0.300	4.898													
STA AV	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13													
	O	0.726	0.666	1.815	3.383	1.860	0.924	0.534	0.396	0.325	0.670	1.031	1.119	13.450													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		3-26	0.003	3-26	0.003	3-26	0.007	3-30	0.019	3-30	0.033	3-29	0.063	3-29	0.115	3-24	0.395										
MAXIMUMS FOR PERIOD OF RECORD																											
		3- 5	0.080	3- 5	0.080	3- 5	0.160	3- 5	0.390	3- 5	0.580	3- 6	0.830	3-30	1.140	3-28	2.540										
		1964		1964		1964		1964		1964		1964		1964		1962											

NOTES: Watershed conditions: Pasture of mostly bluegrass, 38%; cultivated land entirely in clover and orchard grass hay, 37%; and forest stand, predominantly hardwoods, 25%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 67:2-4. Precipitation records began Sept. 1958. Runoff records began October 1958. Part year values not included in station average. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968		DAILY PRECIPITATION (inches)					NORTH DANVILLE, VERMONT WATERSHED W-2							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0	
	2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11	
	3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04	
	4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05	
	5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35	
	6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18	
	7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01	
	8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01	
	9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01	
	10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0	
	11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0	
	12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0	
	13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0	
	14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29	
	15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48	
	16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05	
	17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01	
	18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0	
	19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14	
	20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45	
	21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0	
	22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05	
	23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52	
	24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03	
	25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02	
	26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0	
	27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0	
	28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05	
	29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04	
	30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0	
	31	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	
STA AV		1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period (1959-1968).

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.094	0.075	0.063	0.292	0.137	0.121	0.114	0.022	0.016	0.031	0.041	0.065
2	0.094	0.108	0.062	0.256	0.130	0.119	0.054	0.033	0.015	0.030	0.038	0.067
3	0.094	0.193	0.059	0.244	0.128	0.111	0.045	0.047	0.015	0.035	0.016	0.066
4	0.094	0.102	0.059	0.271	0.157	0.107	0.070	0.043	0.015	0.052	0.015	0.098
5	0.094	0.093	0.059	0.268	0.129	0.101	0.069	0.041	0.014	0.054	0.014	0.161
6	0.094	0.088	0.059	0.207	0.120	0.094	0.106	0.044	0.019	0.040	0.029	0.094
7	0.094	0.084	0.057	0.199	0.113	0.090	0.050	0.048	0.017	0.097	0.041	0.053
8	0.094	0.079	0.058	0.199	0.110	0.087	0.060	0.040	0.014	0.059	0.095	0.024
9	0.094	0.078	0.059	0.190	0.123	0.174	0.072	0.052	0.012	0.046	0.064	0.027
10	0.090	0.078	0.061	0.184	0.126	0.181	0.119	0.045	0.013	0.042	0.067	0.022
11	0.084	0.075	0.061	0.167	0.111	0.126	0.031	0.033	0.066	0.046	0.064	0.021
12	0.084	0.071	0.059	0.160	0.123	0.131	0.027	0.032	0.035	0.052	0.052	0.021
13	0.084	0.071	0.059	0.153	0.112	0.114	0.026	0.021	0.021	0.039	0.056	0.021
14	0.084	0.071	0.059	0.149	0.100	0.123	0.024	0.020	0.018	0.036	0.051	0.029
15	0.084	0.071	0.059	0.217	0.096	0.149	0.024	0.028	0.016	0.034	0.047	0.026
16	0.082	0.070	0.086	0.170	0.094	0.113	0.024	0.029	0.015	0.034	0.047	0.021
17	0.079	0.066	0.202	0.144	0.214	0.140	0.040	0.067	0.014	0.033	0.048	0.021
18	0.079	0.066	0.248	0.137	0.163	0.113	0.033	0.045	0.013	0.019	0.051	0.020
19	0.079	0.066	0.164	0.134	0.195	0.075	0.038	0.034	0.013	0.018	0.046	0.019
20	0.079	0.066	0.125	0.127	0.247	0.044	0.029	0.044	0.011	0.021	0.022	0.044
21	0.079	0.064	0.116	0.127	0.163	0.034	0.024	0.052	0.010	0.026	0.020	0.079
22	0.079	0.059	0.186	0.127	0.178	0.037	0.022	0.042	0.011	0.040	0.019	0.079
23	0.079	0.059	0.354	0.118	0.147	0.037	0.021	0.036	0.009	0.038	0.019	0.084
24	0.078	0.059	0.300	0.168	0.132	0.048	0.024	0.037	0.010	0.036	0.021	0.084
25	0.075	0.059	0.284	0.207	0.123	0.069	0.023	0.075	0.041	0.050	0.024	0.081
26	0.075	0.059	0.323	0.165	0.117	0.108	0.018	0.016	0.046	0.048	0.019	0.077
27	0.075	0.059	0.261	0.218	0.116	0.094	0.020	0.014	0.038	0.039	0.034	0.075
28	0.075	0.059	0.282	0.158	0.109	0.119	0.043	0.015	0.035	0.086	0.084	0.093
29	0.075	0.065	0.271	0.145	0.125	0.131	0.023	0.015	0.034	0.064	0.204	0.099
30	0.075		0.372	0.142	0.133	0.142	0.019	0.016	0.033	0.049	0.085	0.084
31	0.075		0.328		0.141		0.019	0.016		0.043		0.084
MEAN	0.0838	0.0763	0.1546	0.1815	0.1358	0.1044	0.0423	0.0355	0.0213	0.0429	0.0477	0.0593
INCHES	0.424	0.361	0.782	0.888	0.687	0.510	0.214	0.180	0.104	0.217	0.233	0.300
STA AV	0.726	0.666	1.815	3.383	1.860	0.924	0.534	0.396	0.325	0.670	1.031	1.119

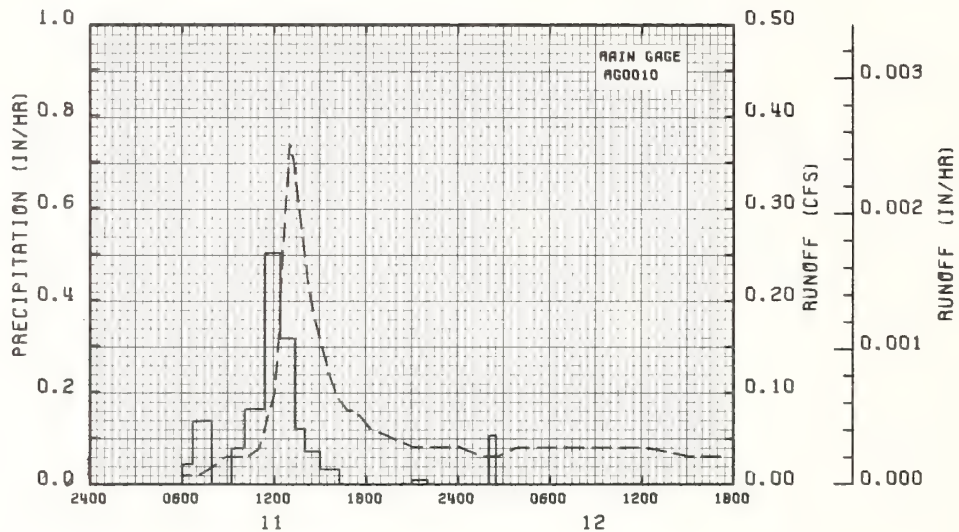
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.1630248. STA AV based on 10 yr record period (1959-1968).

1968 SELECTED RUNOFF EVENT NORTH DANVILLE, VERMONT WATERSHED W-2										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 13, 1968										
RG 10										
9-11 0.0 0.001 9-11										
558 0.0 0.0 9-11										
639 0.0439 0.03 700 0.01 0.0001										
753 0.1378 0.20 800 0.02 0.0002										
910 0.0 0.20 845 0.03 0.0003										
1003 0.0792 0.27 1015 0.03 0.0006										
WATERSHED CONDITIONS:										
38% pastured land; 37% hay;										
and 25% forest.										
1120 0.1636 0.48 1100 0.04 0.0008										
1222 0.5032 1.00 1200 0.10 0.0013										
1319 0.3158 1.30 1215 0.15 0.0015										
1359 0.1200 1.38 1230 0.24 0.0018										
1458 0.0712 1.45 1245 0.31 0.0023										
1614 0.0316 1.49 1300 0.37 0.0029										
2059 0.0 1.49 1315 0.35 0.0035										
2159 0.0100 1.50 1345 0.28 0.0046										
9-12 200 0.0 1.50 1415 0.21 0.0054										
228 0.1071 1.55 1445 0.17 0.0060										
1515 0.14 0.0065										
1545 0.11 0.0069										
1615 0.09 0.0073										
1645 0.08 0.0076										
1715 0.08 0.0079										
1745 0.07 0.0081										
1815 0.06 0.0083										
2100 0.04 0.0093										
2400 0.04 0.0101										
9-12 130 0.03 0.0105										
230 0.03 0.0107										
345 0.04 0.0110										
600 0.04 0.0116										
715 0.04 0.0119										
900 0.04 0.0124										
1000 0.04 0.0127										
1115 0.04 0.0131										
1200 0.04 0.0133										
1500 0.03 0.0140										
1630 0.03 0.0143										

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.006793. For 30-day antecedent rainfall and runoff, see tables of daily amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-2						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
									Acc. (inches)
EVENT OF SEPTEMBER 11 - 13, 1968 (CONTINUED)									
							9-12	1815	0.03
								2400	0.03
							9-13	600	0.02
								1200	0.02
								1800	0.02
								2400	0.02

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.006793. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



EVENT OF SEPTEMBER 11 - 13, 1968
NORTH DANVILLE, VERMONT WATERSHED W-2

NORTH DANVILLE, VERMONT WATERSHED W-3

LOCATION: Caledonia County, Vermont; 7.5 mi. NW of St. Johnsbury; Pope Brook, Sleepers River, Connecticut River Basin.

AREA: 2067.00 acres 3.23 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-3													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37	46.52													
	O	1.182	1.046	3.398	5.427	2.612	1.919	1.144	0.715	0.703	0.909	1.390	1.535	21.980													
STA AV	P	2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58	44.66													
	O	0.985	0.854	1.622	6.523	3.499	1.502	0.865	0.746	0.700	1.257	1.488	1.317	21.358													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1968		4-25	0.027	4-25	0.026	4-25	0.052	4-25	0.140	4-24	0.266	4-24	0.431	3-31	0.634	3-29	2.208										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-21	0.070	4-21	0.070	4-21	0.130	4-14	0.320	4-14	0.590	4-15	1.080	4-16	1.860	4-20	4.440										
		1963		1963		1963		1964		1964		1964		1964		1964											

NOTES: Watershed conditions: Forest, predominantly hardwoods, 67%; pasture of mostly bluegrass, 19%; cultivated land consisting of clover, orchard grass, and timothy hay with very small area in row crops, 11%; and idle land in tall grasses and woody plants, 3%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 67.3-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U. S. Weather Bureau records at St. Johnsbury, Vt.

1968	DAILY PRECIPITATION (inches)					NORTH DANVILLE, VERMONT WATERSHED W-3							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.35	0.29	0.0	0.0	0.02	0.24	0.0	0.0	0.06	0.0	
2	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.01	0.07	0.0	0.04	0.10	
3	0.12	0.35	0.03	0.0	0.03	0.02	0.0	0.0	0.03	0.40	0.0	0.02	
4	0.15	0.04	0.0	0.14	0.17	0.10	0.0	0.0	0.0	0.49	0.0	1.22	
5	0.07	0.06	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.59	
6	0.0	0.05	0.0	0.0	0.0	0.0	0.31	0.05	0.45	0.0	0.0	0.10	
7	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.49	0.29	0.01	
8	0.01	0.0	0.0	0.01	0.0	0.0	0.01	0.05	0.0	0.04	0.62	0.0	
9	0.0	0.0	0.0	0.10	0.33	1.03	0.71	0.49	0.0	0.0	0.04	0.01	
10	0.0	0.22	0.0	0.09	0.0	0.41	0.64	0.08	0.0	0.0	0.35	0.04	
11	0.0	0.18	0.0	0.08	0.0	0.0	0.0	0.0	1.64	0.14	0.01	0.0	
12	0.0	0.02	0.49	0.0	0.23	0.19	0.0	0.0	0.51	0.0	0.26	0.03	
13	0.0	0.07	0.47	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.54	0.0	
14	0.01	0.10	0.0	0.0	0.0	0.0	0.05	0.05	0.0	0.0	0.04	0.29	
15	0.23	0.22	0.0	0.40	0.0	0.46	0.0	0.0	0.0	0.0	0.35	0.58	
16	0.0	0.0	0.04	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.05	0.09	
17	0.0	0.11	0.76	0.0	0.79	0.09	0.0	0.75	0.0	0.0	0.01	0.08	
18	0.0	0.12	0.14	0.0	0.46	0.01	0.0	0.0	0.0	0.0	1.07	0.01	
19	0.14	0.04	0.0	0.0	0.13	0.40	0.12	0.0	0.0	0.56	0.30	0.11	
20	0.0	0.04	0.0	0.0	0.91	0.17	0.0	1.51	0.0	0.0	0.26	0.38	
21	0.10	0.01	0.13	0.0	0.0	0.02	0.0	0.03	0.0	0.0	0.02	0.0	
22	0.0	0.13	0.50	0.0	0.03	0.14	0.0	0.0	0.0	0.0	0.31	0.08	
23	0.25	0.04	0.84	0.0	0.0	0.05	0.0	0.0	0.0	0.05	0.0	0.53	
24	0.0	0.0	0.25	1.51	0.0	0.37	0.06	0.13	0.0	0.0	0.14	0.15	
25	0.0	0.0	0.02	0.75	0.0	0.02	0.03	0.44	0.59	0.46	0.09	0.04	
26	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.01	0.0	0.08	0.04	0.0	
27	0.0	0.0	0.0	0.43	0.0	0.01	0.08	0.0	0.06	0.0	0.14	0.01	
28	0.11	0.0	0.0	0.02	0.0	0.21	0.60	0.0	0.08	0.57	0.69	0.84	
29	0.14	0.11	0.0	0.0	0.16	0.70	0.02	0.0	0.02	0.05	0.39	0.04	
30	0.25	0.0	0.0	0.0	0.12	0.36	0.0	0.0	0.0	0.04	0.0	0.02	
31	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	
TOTAL	2.27	2.01	4.02	4.09	3.57	5.30	2.65	3.94	3.45	3.70	6.15	5.37	
STA AV	2.83	3.23	3.34	3.64	3.65	4.03	3.79	4.51	3.14	4.38	4.55	3.58	

NOTES: For temperature data see table of daily maximum and minimum, values included with information for Watershed 67.001. Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.968	2.957	2.523	30.905	8.612	4.796	7.595	1.858	1.372	1.475	2.280	4.974
2	4.226	3.628	2.582	19.381	7.942	4.626	4.588	1.826	1.292	1.445	2.529	4.845
3	4.240	8.220	2.410	19.508	7.729	4.640	3.810	1.671	1.393	1.568	2.278	4.543
4	3.946	4.476	2.410	21.678	8.724	4.153	3.471	1.557	1.352	3.014	2.235	4.920
5	3.851	4.015	2.464	32.173	7.224	3.816	3.170	1.493	1.375	4.997	2.140	7.959
6	3.684	3.796	2.404	19.045	6.535	3.434	4.278	1.557	2.084	2.569	2.126	5.451
7	3.696	3.479	2.362	17.866	6.046	3.322	3.572	1.731	2.138	4.531	2.138	4.861
8	3.361	3.391	2.464	18.140	5.944	3.130	3.061	1.521	1.479	3.803	3.175	4.975
9	3.485	3.233	2.464	18.539	6.178	7.419	2.780	1.869	1.357	2.702	2.865	4.174
10	3.397	3.831	2.464	16.959	7.140	12.446	9.440	2.007	1.311	2.251	2.814	4.245
11	3.361	3.314	2.464	14.667	5.674	5.829	4.596	1.537	8.943	2.389	2.720	4.100
12	3.361	3.139	2.464	13.924	5.971	6.229	3.436	1.335	6.205	2.208	2.575	4.038
13	3.258	2.968	2.464	14.414	5.650	5.410	2.990	1.295	3.351	2.086	2.665	4.100
14	3.224	2.861	2.464	13.752	4.952	4.601	2.639	1.263	2.359	1.968	2.595	4.958
15	3.156	2.720	2.334	15.312	4.626	6.311	2.412	1.258	1.969	1.875	2.546	4.853
16	3.122	2.720	2.869	14.881	4.386	6.477	2.276	1.277	1.783	1.904	2.639	4.381
17	3.106	3.000	10.491	11.091	11.523	5.049	4.243	2.306	1.629	1.804	2.478	4.042
18	3.036	2.896	9.110	10.005	8.412	4.643	3.812	2.287	1.508	1.716	4.205	3.946
19	2.957	2.622	12.783	9.233	14.017	4.904	2.860	1.651	1.445	2.159	12.737	3.946
20	2.957	2.553	13.399	8.509	18.503	6.688	2.510	4.849	1.370	3.705	5.397	4.002
21	3.007	2.459	13.903	7.906	11.408	4.761	2.117	4.655	1.319	2.139	4.123	3.758
22	3.076	2.485	23.158	7.727	8.316	4.618	1.999	2.127	1.220	2.001	3.889	3.647
23	3.224	2.355	23.613	7.169	7.111	4.536	1.845	1.929	1.163	1.916	1.575	3.979
24	3.154	2.348	23.252	16.383	6.443	5.657	2.003	1.895	1.267	1.879	3.994	3.899
25	3.108	2.348	13.039	31.689	5.974	6.492	1.991	4.946	2.588	2.681	5.613	3.744
26	2.845	2.348	12.071	13.223	5.554	5.039	1.740	2.539	1.980	2.528	4.055	3.450
27	2.829	2.348	14.564	15.388	5.054	4.626	1.622	1.775	1.488	2.054	3.907	3.361
28	2.909	2.348	16.827	12.531	4.849	5.045	2.695	1.626	1.392	4.052	4.102	3.531
29	3.073	2.348	21.817	10.098	5.001	7.969	2.206	1.546	1.455	4.180	15.715	3.875
30	3.089		23.446	9.216	5.451	9.922	1.858	1.471	1.445	2.884	6.582	3.361
31	2.974		24.020		5.909		1.708	1.427		2.486		3.361
MEAN	3.312	3.131	9.519	15.710	7.318	5.556	3.204	2.003	2.034	2.548	4.023	4.299
INCHES	1.182	1.046	3.398	5.427	2.612	1.919	1.144	0.715	0.703	0.909	1.390	1.535
STA AV	0.985	0.854	1.622	6.523	3.499	1.502	0.865	0.746	0.700	1.257	1.488	1.317

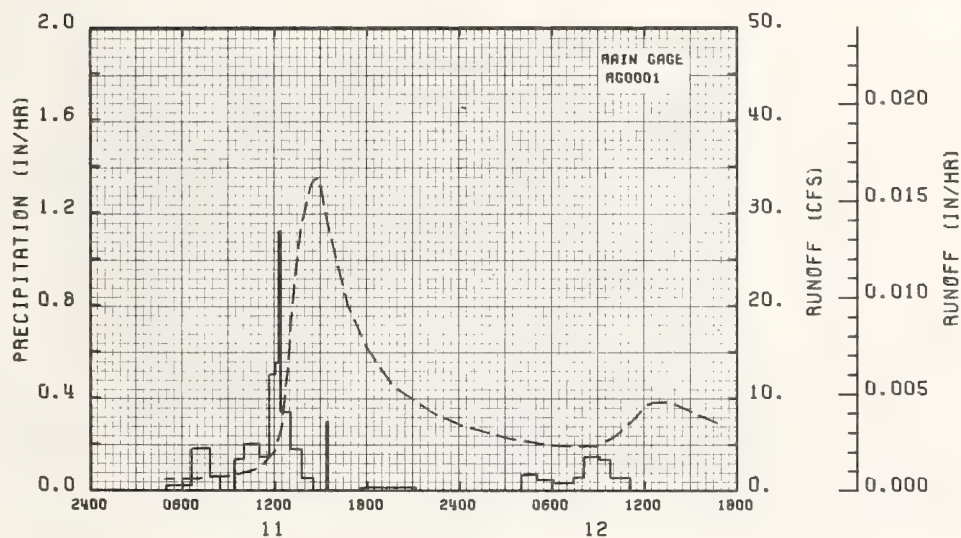
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.011515. STA AV based on 9 yr record period.

1968 SELECTED RUNOFF EVENT NORTH DANVILLE, VERMONT WATERSHED W-3												
ANTECEDENT CONDITIONS			RAINFALL									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Runoff	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(cfs)	(inches)	
EVENT OF SEPTEMBER 11 - 13, 1968												
9-11	RG 01 0.0	0.003	9-11	455	0.0	0.0	9-11	450	1.28	0.0		
				634	0.0242	0.04		700	1.36	0.0014		
				746	0.1833	0.26		802	1.62	0.0021		
				826	0.0600	0.30		903	1.62	0.0029		
				921	0.0	0.30		1017	2.13	0.0040		
WATERSHED CONDITIONS: 67% forest land; 19% pastured land; 11% hay and 3% idle land with dense grass and brush growth.												
				1000	0.1385	0.39		1104	2.58	0.0049		
				1059	0.2034	0.59		1200	4.42	0.0065		
				1136	0.1459	0.68		1226	6.82	0.0077		
				1201	0.5040	0.89		1250	13.16	0.0096		
				1214	0.5538	1.01		1316	22.30	0.0133		
				1222	1.1250	1.16		1341	28.36	0.0183		
				1301	0.3385	1.38		1422	33.20	0.0284		
				1345	0.1773	1.51		1436	33.71	0.0322		
				1430	0.0533	1.55		1453	33.71	0.0368		
				1519	0.0	1.55		1525	28.83	0.0448		
				1527	0.3000	1.59		1644	19.95	0.0602		
				1732	0.0	1.59		1759	15.36	0.0708		
				1900	0.0136	1.61		1942	11.15	0.0817		
				2109	0.0140	1.64		2214	8.36	0.0935		
			9-12	400	0.0	1.64		2400	7.03	0.1000		
				500	0.0700	1.71		259	5.64	0.1091		
				606	0.0455	1.76		529	4.92	0.1154		
				722	0.0316	1.80		712	4.75	0.1194		
				804	0.0571	1.84		846	4.75	0.1230		
				905	0.1475	1.99		1001	5.83	0.1262		
				946	0.1317	2.08		1115	7.68	0.1302		
				1104	0.0538	2.15		1200	9.08	0.1332		
								1231	9.57	0.1355		
								1331	9.57	0.1401		
								1546	7.91	0.1495		
								1859	5.64	0.1599		
								2100	4.75	0.1649		
								2400	4.26	0.1714		
							9-13	1133	3.36	0.1925		
								1613	2.96	0.1996		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.011515. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.001. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 11 - 13, 1968 (CONTINUED)										
							9-13	2113	2.70	0.2064
								2400	2.70	0.2100

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004797. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.001. For antecedent runoff, see table of daily runoff amounts.



EVENT OF SEPTEMBER 11 - 13, 1968
NORTH DANVILLE, VERMONT WATERSHED W-3

NORTH DANVILLE, VERMONT WATERSHED W-4

LOCATION: Caledonia County, Vermont; 4.7 mi. NW of St. Johnsbury; Morrill Brook, Sleepers River, Connecticut River Basin.

AREA: 10752.00 acres 16.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-4									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual									
1968	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64									
	Q	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137	19.379									
STA AV	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13									
	Q	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157	18.526									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval															
		Date	Rate	Date	Vol.	Date	Vol.	Date		Vol.	Date		Vol.	Date		Vol.							
		12 Hours		2 Days		8 Days		1 Day		2 Days		8 Days											
1968		3-24	0.037	3-24	0.037	3-24	0.073	3-23	0.213	3-23	0.401	3-23	0.649	3-22	1.129	3-22	2.405						
MAXIMUMS FOR PERIOD OF RECORD																							
		4-18	0.040	4-18	0.040	3-24	0.073	3-23	0.213	3-23	0.401	10- 6	0.660	3-22	1.129	4-12	2.750						
		1960		1960		1968		1968		1968		1962		1968		1960							

NOTES: Forest, 74%; cultivated, 12%; pasture, 12%; and idle, 2%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Mis. Pub. 1262, p. 67.4-19. Precipitation records began 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY PRECIPITATION (inches)													
NORTH DANVILLE, VERMONT WATERSHED W-4													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0	
2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11	
3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04	
4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05	
5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35	
6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18	
7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01	
8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01	
9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01	
10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0	
11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0	
12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0	
13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0	
14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29	
15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48	
16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05	
17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01	
18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0	
19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14	
20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45	
21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0	
22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05	
23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52	
24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03	
25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02	
26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0	
27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0	
28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05	
29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04	
30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0	
31	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	
STA AV	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr period.

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	16.90	11.07	8.61	144.30	43.05	29.46	35.31	4.54	2.74	3.86	8.06	17.71
2	16.90	12.36	8.59	95.35	37.54	24.03	20.11	4.86	2.49	3.52	8.76	20.41
3	16.72	25.28	8.44	87.17	34.28	24.61	14.75	4.27	2.48	3.44	8.51	19.81
4	16.90	30.07	8.44	96.28	39.76	20.85	12.78	3.44	2.48	6.72	7.55	20.07
5	16.41	18.55	8.44	144.21	33.71	18.30	11.62	3.15	2.29	15.24	7.04	47.64
6	15.79	15.88	8.28	90.35	30.03	16.56	17.45	2.88	3.06	9.71	6.90	26.80
7	15.63	14.53	8.03	79.75	27.79	15.11	15.41	3.86	6.98	13.77	7.01	19.82
8	13.98	13.40	7.78	80.71	27.25	14.32	12.49	3.52	4.35	16.71	14.03	16.60
9	14.10	12.67	7.94	86.99	26.78	31.27	10.38	3.27	3.23	10.02	13.33	14.40
10	13.71	12.44	9.20	78.80	34.38	69.33	48.04	7.27	2.60	7.80	12.22	13.03
11	13.25	11.49	9.01	68.33	27.38	31.26	26.22	4.23	37.03	7.73	12.80	10.88
12	12.90	10.98	8.98	65.21	26.61	29.72	16.19	3.09	31.54	7.69	10.64	12.63
13	12.69	10.75	9.14	68.78	25.49	28.85	12.46	2.66	16.02	6.89	10.43	14.06
14	12.56	10.38	8.57	67.40	22.08	22.74	10.90	2.52	9.78	6.10	9.90	16.28
15	12.56	10.38	8.44	71.66	20.51	22.78	9.83	2.22	7.06	5.71	9.14	17.84
16	12.56	10.13	9.31	74.55	19.09	32.29	8.58	1.94	5.90	5.45	10.07	16.97
17	11.14	10.17	26.11	52.39	65.74	23.94	7.99	3.37	5.10	5.28	8.94	16.10
18	11.72	9.56	61.68	46.19	44.67	23.45	9.30	6.55	4.66	5.08	11.95	14.39
19	11.64	9.36	86.55	42.46	72.57	22.46	9.37	3.75	4.03	5.67	65.85	13.71
20	11.92	9.52	89.21	39.21	100.71	31.53	9.05	13.76	3.59	16.91	28.40	13.75
21	12.04	9.02	84.50	37.06	63.59	21.85	6.68	22.07	3.28	9.70	18.29	13.75
22	11.72	8.51	220.23	35.38	48.44	24.36	5.75	8.52	3.16	7.34	16.09	13.58
23	11.60	8.44	207.98	32.57	41.14	22.91	4.96	5.69	2.81	6.54	14.55	14.63
24	11.60	8.22	214.42	62.34	33.03	23.62	4.88	4.65	2.71	6.36	14.57	14.65
25	11.29	8.19	79.20	185.35	29.56	33.38	5.74	9.31	6.30	7.53	23.15	13.11
26	11.17	7.99	73.89	68.60	26.49	23.16	4.84	6.52	7.89	10.85	15.64	13.58
27	10.98	7.81	89.18	72.88	24.75	20.35	4.07	4.52	5.21	7.91	15.11	13.58
28	10.98	7.93	93.16	60.80	22.63	20.95	7.89	4.04	4.40	15.25	13.69	13.58
29	10.98	8.31	110.16	47.77	21.76	29.75	9.16	3.60	4.07	18.21	74.95	13.58
30	11.12		117.67	44.24	26.21	46.53	5.98	3.19	3.84	11.62	32.79	13.49
31	11.08		107.69		41.54		4.72	2.97		9.31		13.23
MEAN	13.049	11.840	58.025	74.235	36.726	26.656	12.352	5.167	6.702	8.837	17.011	16.569
STA AV	0.855	0.733	1.740	5.286	3.231	1.770	0.848	0.355	0.445	0.606	1.130	1.137

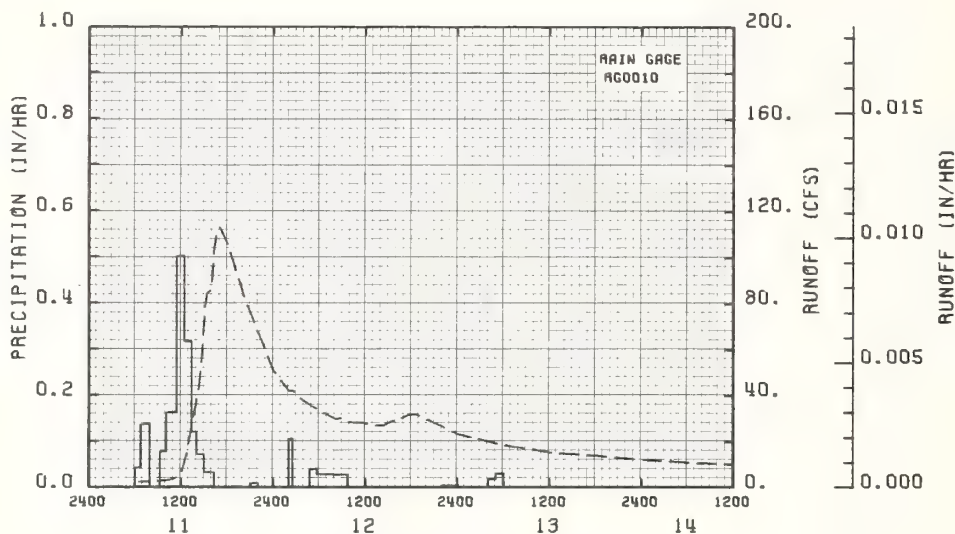
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002213695. STA AV based on 9 yr period.

1968 SELECTED RUNOFF EVENT NORTH DANVILLE, VERMONT WATERSHED W-4												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 11 - 14, 1968												
9-11	RG 10 0.0	0.002	9-11	558	0.0	0.0	9-11	633	2.52	0.0		
				639	0.0439	0.03		720	2.65	0.0002		
				753	0.1378	0.20		846	2.92	0.0006		
				910	0.0	0.20		1018	3.35	0.0010		
				1003	0.0792	0.27		1117	4.33	0.0013		
WATERSHED CONDITIONS:				1120	0.1636	0.48		1200	6.51	0.0017		
74% forest land; 12% pastured				1222	0.5032	1.00		1239	14.64	0.0023		
land; 12% cultivated; 2% idle				1319	0.3158	1.30		1315	25.37	0.0034		
land with dense grass and				1359	0.1200	1.38		1351	35.96	0.0051		
brush growth.				1458	0.0712	1.45		1416	43.80	0.0066		
				1614	0.0316	1.49		1446	62.34	0.0090		
				2059	0.0	1.49		1504	77.87	0.0109		
				2159	0.0100	1.50		1517	84.87	0.0125		
			9-12	200	0.0	1.50		1548	85.90	0.0166		
				228	0.1071	1.55		1603	92.23	0.0187		
				440	0.0	1.55		1616	104.54	0.0207		
				538	0.0414	1.59		1629	109.25	0.0228		
				937	0.0276	1.70		1657	112.86	0.0276		
				2200	0.0	1.70		1757	105.71	0.0377		
				2400	0.0050	1.71		2013	81.83	0.0573		
			9-13	357	0.0	1.71		2400	50.30	0.0804		
				500	0.0190	1.73		157	41.76	0.0887		
				559	0.0305	1.76		224	41.76	0.0904		
								358	37.20	0.0961		
								559	32.96	0.1026		
								758	29.56	0.1083		
								830	30.11	0.1098		
								928	28.48	0.1124		
								1018	27.95	0.1146		
								1129	27.95	0.1177		
								1244	26.90	0.1209		
								1413	26.90	0.1246		
								1458	28.48	0.1265		
								1630	30.11	0.1306		
								1731	31.80	0.1335		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-4							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)										
							9-12	1828	31.80	0.1363
								2014	29.02	0.1413
								2400	22.94	0.1503
							9-13	559	18.10	0.1616
								1200	15.00	0.1708
								1759	13.58	0.1787
								2400	11.92	0.1858
							9-14	600	10.68	0.1921
								1200	9.80	0.1978
								1800	8.71	0.2029
								2400	7.93	0.2075

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



EVENT OF SEPTEMBER 11 - 14, 1968
NORTH DANVILLE, VERMONT WATERSHED W-4

NORTH DANVILLE, VERMONT WATERSHED W-5

LOCATION: Caledonia County, Vermont; 2 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.

AREA: 27469.00 acres 42.92 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-5													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64													
	O	0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122	18.289													
STA AV	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13													
	O	1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338	19.707													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days											
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		4-25	0.030	4-25	0.030	4-25	0.060	3-23	0.167	4-24	0.317	3-23	0.512	3-22	0.867	3-17	2.349										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-18	0.037	4-18	0.036	4-18	0.072	3-25	0.198	10- 7	0.383	10- 6	0.698	4-16	1.117	4-12	3.140										
		1960		1960		1960		1966		1962		1962		1964		1960											

NOTES: Watershed conditions: Forest predominantly hardwoods, 67%; cultivated land consisting of mostly clover, orchard grass, and timothy hay with very little in row crops, 17%; pasture of mostly bluegrass, 13%; idle land in tall grasses and woody plants, 2%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 67.5-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968	DAILY PRECIPITATION (inches)						NORTH DANVILLE, VERMONT WATERSHED W-5							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0	
	2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11	
	3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04	
	4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05	
	5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35	
	6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18	
	7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01	
	8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01	
	9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01	
	10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0	
	11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0	
	12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0	
	13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0	
	14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29	
	15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48	
	16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05	
	17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01	
	18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0	
	19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14	
	20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45	
	21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0	
	22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05	
	23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52	
	24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03	
	25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02	
	26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0	
	27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0	
	28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05	
	29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04	
	30	0.26		0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0	
	31	0.0		0.0		0.38		0.0	0.0		0.0		0.0	
TOTAL		1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	
STA AV		1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	

NOTES: For temperature data see table of maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	41.89	26.13	24.73	428.33	84.78	66.48	104.95	9.96	6.82	7.51	18.23	44.74
2	41.89	29.92	24.83	237.17	76.71	47.62	48.75	11.43	6.17	6.78	20.53	48.47
3	41.74	79.17	19.15	212.21	70.75	49.60	32.68	10.38	6.14	6.70	19.22	46.17
4	38.97	100.56	21.54	241.85	84.32	41.44	26.68	8.24	6.19	11.39	16.46	45.65
5	37.28	67.17	21.20	370.02	72.58	38.87	23.21	7.32	5.38	30.66	14.56	123.39
6	35.50	45.91	20.71	206.15	62.55	29.64	36.20	6.71	6.38	19.05	14.60	69.46
7	34.96	40.33	20.11	176.20	54.71	26.34	30.84	8.62	14.66	29.69	15.03	53.32
8	33.64	36.36	19.95	180.70	51.88	25.09	23.89	7.94	9.36	38.09	32.51	44.10
9	33.77	33.71	20.79	201.59	51.09	61.06	18.40	7.39	6.55	21.74	32.48	34.05
10	31.22	31.77	23.43	178.45	68.75	180.92	93.21	13.25	5.21	16.93	29.80	31.43
11	28.63	30.02	24.36	149.63	52.88	68.97	52.76	8.86	96.67	16.80	30.52	29.14
12	28.07	27.60	24.64	139.54	51.40	61.82	31.34	6.30	76.81	16.71	25.53	33.84
13	27.38	26.24	24.85	148.49	51.18	77.33	23.48	5.23	35.39	14.50	25.36	38.47
14	27.15	25.36	23.36	143.92	42.38	57.62	19.78	4.66	21.02	12.77	23.93	45.14
15	27.84	25.36	21.93	162.23	38.03	47.29	17.38	3.82	14.39	11.88	21.79	53.19
16	28.07	24.82	25.13	180.88	35.15	72.58	15.42	3.72	11.91	11.32	24.25	46.50
17	27.38	24.97	109.61	114.25	156.95	52.10	25.27	6.28	10.56	10.81	20.55	39.56
18	25.91	24.00	265.42	98.29	107.58	49.23	25.98	15.97	9.79	10.49	27.65	35.63
19	25.69	23.93	334.37	89.80	186.25	49.48	30.65	8.47	8.85	10.90	181.16	34.16
20	26.36	23.64	328.28	81.79	270.27	84.31	37.59	20.41	7.84	36.63	74.52	34.03
21	27.50	21.95	272.89	76.16	156.32	50.84	25.94	49.94	7.11	19.90	48.21	34.03
22	27.77	21.20	448.55	73.17	105.70	44.03	24.60	19.18	6.59	14.19	39.54	34.03
23	27.15	21.10	439.56	67.30	85.74	44.31	22.52	12.89	6.19	13.08	35.28	36.70
24	27.05	19.85	438.85	147.01	68.10	53.89	21.23	10.97	5.67	13.02	35.59	37.81
25	26.58	19.66	186.87	522.08	58.23	86.94	24.93	26.27	9.64	15.43	59.76	35.09
26	25.70	19.66	171.54	159.42	50.84	54.41	14.63	17.32	12.96	23.73	41.68	34.83
27	25.36	19.66	224.28	176.11	46.10	46.87	8.88	11.75	9.42	16.65	35.76	32.37
28	25.36	20.23	246.12	145.48	42.23	48.64	18.08	10.64	8.08	37.33	31.62	29.98
29	25.36	21.10	302.12	106.15	40.16	68.89	18.72	9.41	7.28	53.69	227.04	29.98
30	26.47	325.59	92.46	52.99	123.39	11.95	8.24	7.18	30.24	88.34	29.98	
31	26.59	281.22		82.50		10.06	7.36		23.33		29.98	
MEAN	30.12	32.12	152.77	176.89	79.32	60.20	29.68	11.58	14.87	19.42	43.72	41.78
INCHES	0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122
STA AV	1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338

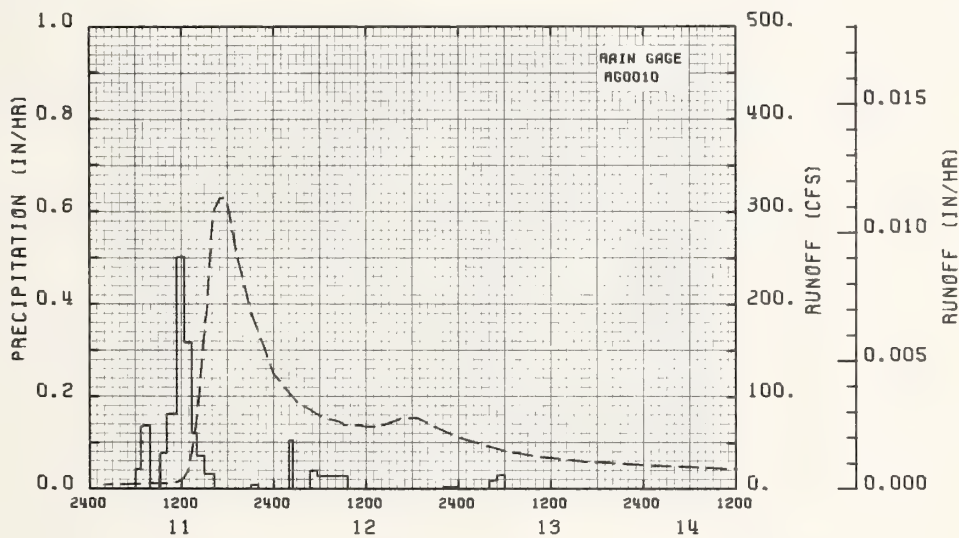
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0008665. STA AV based on 9 yr record period.

1968 SELECTED RUNOFF EVENT NORTH DANVILLE, VERMONT WATERSHED W-5												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Punoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 11 - 14, 1968												
RG 10			RG 10									
9-11	0.0	0.000	9-11	558	0.0	0.0	9-11	143	4.96	0.0		
				639	0.0439	0.03		317	5.63	0.0003		
				753	0.1378	0.20		559	5.98	0.0009		
				910	0.0	0.20		735	6.35	0.0013		
				1003	0.0792	0.27		754	6.73	0.0014		
WATERSHED CONDITIONS:				1120	0.1636	0.48		849	6.73	0.0016		
67% forest; 17% hay; 13%				1222	0.5032	1.00		930	6.35	0.0018		
pastured land; 2% idle land				1319	0.3158	1.30		1014	6.73	0.0020		
with dense brush and grass				1359	0.1200	1.38		1130	8.40	0.0023		
growth; 1% homesites and				1458	0.0712	1.45		1215	12.44	0.0026		
roads.				1614	0.0316	1.49		1249	21.20	0.0029		
				2059	0.0	1.49		1320	40.70	0.0035		
				2159	0.0100	1.50		1400	78.66	0.0049		
			9-12	200	0.0	1.50		1422	107.85	0.0061		
				228	0.1071	1.55		1447	155.96	0.0081		
				440	0.0	1.55		1523	202.56	0.0120		
				538	0.0414	1.59		1536	235.56	0.0137		
				937	0.0276	1.70		1558	283.15	0.0171		
				2200	0.0	1.70		1621	302.90	0.0211		
				2400	0.0050	1.71		1700	315.14	0.0284		
			9-13	357	0.0	1.71		1741	315.14	0.0361		
				500	0.0190	1.73		1808	302.90	0.0412		
				559	0.0305	1.76		1912	253.23	0.0519		
								2057	193.25	0.0660		
								2400	123.46	0.0834		
							9-12	300	93.52	0.0952		
								558	78.66	0.1044		
								830	71.81	0.1113		
								914	68.53	0.1132		
								1057	68.53	0.1175		
								1145	66.92	0.1195		
								1313	66.92	0.1230		
								1348	68.53	0.1244		
								1530	73.49	0.1288		
								1630	76.91	0.1315		

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
									Acc. (inches)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)									
							9-12	1830	76.91
								2029	68.53
								2230	60.73
								2400	54.91
							9-13	601	40.70
								1029	34.03
								1632	29.02
								2059	27.15
								2400	25.36
							9-14	558	23.64
								1200	21.20
								1759	18.20
								2400	16.80

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



EVENT OF SEPTEMBER 11 - 14, 1968
NORTH DANVILLE, VERMONT WATERSHED W-5

REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)										REYNOLDS, IDAHO WATERSHED W-1 (036068)									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	15.78					
	O	0.045	0.261	0.096	0.044	0.037	0.024	0.012	0.018	0.006	0.005	0.015	0.034	0.595					
STA AV	P	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	0.0					
	O	0.373	0.298	0.203	0.416	0.482	0.305	0.032	0.025	0.012	0.017	0.037	0.271	2.470					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge Date	1 Hour Date	2 Hours Date	Maximum Volume for Selected Time Interval														
		Rate	Vol.	Vol.	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date										
					Vol.	Vol.	Vol.	Vol.	Vol.										
1968		2-21 0.005	2-21 0.005	2-21 0.010	2-21 0.025	2-21 0.040	2-21 0.056	2-20 0.088	2-18 0.215										
MAXIMUMS FOR PERIOD OF RECORD																			
		12-23 1964	0.065	12-23 1964	0.064	12-23 1964	0.125	12-23 1964	0.270	12-23 1964	0.327	12-23 1964	0.453	12-23 1964	0.721	12-28 1965	1.313		

NOTES: Watershed conditions: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. Revised map of Watershed in this publication. Previous map published in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 68.1-8. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968 DAILY AIR TEMPERATURE (degrees F)														REYNOLDS, IDAHO WATERSHED W-1 (036068)													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	36	27	43	34	55	28	53	39	78	30	74	43	82	50	88	56	86	49	76	42	51	24	32	26			
2	31	14	51	33	57	28	47	40	65	36	80	54	87	45	88	75	70	54	64	36	47	34	34	23			
3	32	12	49	38	60	27	51	30	65	31	71	59	90	50	84	58	69	42	73	30	33	29	46	30			
4	39	10	52	31	61	32	57	26	73	39	70	50	92	56	90	54	75	43	72	40	52	32	45	42			
5	36	15	36	28	53	34	45	32	74	36	70	47	95	47	93	62	78	46	63	34	46	31	48	26			
6	30	9	47	37	44	28	43	29	48	26	65	50	98	58	87	54	83	46	62	39	45	25	36	20			
7	32	10	46	28	43	28	46	30	52	23	66	50	97	63	96	52	78	56	51	34	46	31	41	24			
8	38	20	44	21	42	22	55	28	59	29	64	44	96	62	93	63	83	57	54	27	55	33	48	28			
9	45	23	42	29	45	25	65	29	69	34	72	50	94	84	90	64	87	50	56	22	55	29	52	28			
10	44	21	44	18	48	20	76	34	75	53	78	43	91	64	83	61	89	56	68	46	45	25	53	36			
11	30	20	49	20	55	30	65	30	70	40	86	47	97	57	85	60	87	63	72	42	52	36	42	28			
12	31	12	35	19	56	30	64	20	67	45	72	45	82	63	96	58	75	50	63	44	42	38	36	18			
13	35	18	34	18	45	32	44	15	59	44	71	59	81	52	76	58	86	46	48	38	38	31	32	15			
14	38	22	34	15	48	30	47	22	53	37	72	40	81	58	62	54	72	56	53	35	34	21	43	29			
15	52	32	35	26	52	30	68	40	57	32	80	45	78	50	67	46	61	48	51	39	37	28	42	30			
16	45	29	44	26	50	36	50	26	56	34	88	46	84	52	67	51	64	42	49	37	34	26	34	25			
17	37	18	47	30	38	31	40	27	65	33	93	55	79	54	63	46	76	40	52	26	41	22	31	22			
18	35	18	47	41	41	32	49	20	74	40	95	54	89	48	65	45	80	54	52	27	40	33	34	21			
19	43	20	53	42	46	27	56	33	77	48	95	60	97	52	66	49	56	40	58	22	43	29	26	13			
20	44	22	55	43	52	22	44	19	71	50	80	52	78	48	61	42	48	38	54	30	39	30	24	15			
21	43	22	47	41	58	22	42	25	74	48	88	54	90	50	61	41	48	39	51	25	43	35	24	10			
22	41	24	48	37	61	30	45	27	66	34	83	52	87	56	67	50	60	37	61	32	50	33	21	10			
23	44	31	56	43	61	39	55	22	63	38	75	56	89	51	75	52	68	36	62	32	49	28	34	20			
24	43	18	51	30	57	37	61	32	60	45	80	58	92	52	81	46	71	38	65	31	40	28	42	32			
25	35	22	53	27	58	33	58	32	67	47	89	50	93	55	82	50	74	38	68	35	41	22	39	29			
26	29	12	52	28	48	32	56	39	66	37	102	55	94	66	79	56	76	40	63	32	39	22	32	27			
27	27	14	52	28	62	26	52	28	68	40	90	60	99	58	78	53	75	43	64	26	42	28	31	26			
28	30	10	54	26	62	39	60	25	74	41	68	42	99	65	71	50	68	38	59	32	43	25	38	16			
29	40	22	57	26	69	34	71	36	82	46	65	44	98	68	77	46	70	39	61	37	42	20	23	14			
30	36	28			51	30	80	40	75	38	74	38	88	60	82	47	72	40	40	29	38	21	23	10			
31	35	16			52	39			69	37			86	54	86	49			48	32				8			
AV.		37	19	46	29	52	30	54	66	38	78	50	89	56	78	53	72	45	59	33	43	28	35	22			
MEAN		28.2		38.3		41.4		42.0	52.7		64.4		73.1		66.0		59.2		46.3		36.0		29.0				
STA AV		36	18	44	26	47	25	54	66	38	73	46	86	51	83	49	76	43	64	33	48	27	39	20			

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 6 yr (1963-68) record period.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.10	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.09
2	0.02	0.06	0.00	0.08	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.42	0.00
4	0.0	0.01	0.00	0.17	0.09	0.03	0.0	0.00	0.00	0.0	0.02	0.01
5	0.01	0.01	0.16	0.27	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.04	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.44	0.0
9	0.09	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.33	0.0
10	0.20	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.05
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.08
12	0.00	0.05	0.01	0.00	0.15	0.00	0.0	0.05	0.0	0.10	0.31	0.02
13	0.00	0.07	0.10	0.0	0.06	0.00	0.0	0.16	0.00	0.22	0.01	0.00
14	0.01	0.01	0.09	0.04	0.01	0.03	0.04	0.93	0.0	0.20	0.00	0.03
15	0.20	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.05	0.08	0.15
16	0.07	0.01	0.03	0.03	0.01	0.00	0.0	0.53	0.00	0.00	0.05	0.03
17	0.00	0.24	0.14	0.00	0.00	0.0	0.0	0.84	0.0	0.0	0.00	0.01
18	0.0	0.24	0.01	0.02	0.00	0.09	0.00	0.19	0.01	0.00	0.19	0.15
19	0.0	0.22	0.0	0.03	0.13	0.04	0.00	0.27	0.02	0.00	0.01	0.02
20	0.00	0.13	0.00	0.01	0.25	0.0	0.0	0.06	0.01	0.21	0.00	0.01
21	0.00	0.66	0.0	0.04	0.03	0.00	0.0	0.00	0.10	0.00	0.02	0.01
22	0.00	0.08	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.10	0.17
23	0.00	0.21	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.54
24	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.00	0.0	0.19	0.38
25	0.0	0.0	0.17	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.11
26	0.00	0.0	0.01	0.01	0.13	0.0	0.0	0.00	0.0	0.0	0.00	0.04
27	0.01	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.05
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.05
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.02	0.01
30	0.15	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.10	0.10
31	0.03	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0
TOTAL	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12
STA AV	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12

NOTES: Values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (0/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08	0.01	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07
2	0.01	0.05	0.00	0.06	0.0	0.00	0.00	0.01	0.0	0.0	0.06	0.00
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.38	0.00
4	0.0	0.01	0.00	0.12	0.07	0.03	0.0	0.00	0.00	0.0	0.01	0.01
5	0.01	0.01	0.11	0.20	0.04	0.01	0.0	0.0	0.00	0.0	0.00	0.00
6	0.00	0.00	0.02	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.00	0.00	0.00	0.14	0.00	0.0	0.0	0.0	0.39	0.0
9	0.06	0.00	0.00	0.0	0.00	0.00	0.05	0.53	0.0	0.0	0.26	0.0
10	0.14	0.0	0.0	0.0	0.01	0.00	0.0	0.16	0.00	0.0	0.02	0.04
11	0.00	0.0	0.0	0.00	0.06	0.00	0.0	0.01	0.00	0.02	0.04	0.06
12	0.00	0.05	0.00	0.00	0.12	0.00	0.0	0.04	0.0	0.09	0.24	0.01
13	0.00	0.06	0.05	0.0	0.05	0.00	0.0	0.13	0.00	0.20	0.01	0.00
14	0.01	0.01	0.04	0.01	0.01	0.01	0.03	0.84	0.0	0.18	0.00	0.02
15	0.16	0.04	0.00	0.02	0.03	0.0	0.0	0.00	0.04	0.04	0.05	0.11
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.47	0.00	0.00	0.03	0.02
17	0.00	0.22	0.07	0.00	0.00	0.0	0.0	0.76	0.0	0.0	0.00	0.09
18	0.0	0.22	0.00	0.01	0.00	0.09	0.00	0.18	0.01	0.00	0.14	0.09
19	0.0	0.20	0.0	0.02	0.12	0.03	0.00	0.25	0.01	0.00	0.01	0.01
20	0.00	0.12	0.00	0.01	0.21	0.0	0.0	0.06	0.01	0.19	0.00	0.01
21	0.00	0.59	0.0	0.03	0.03	0.00	0.0	0.00	0.06	0.00	0.01	0.00
22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.07	0.10
23	0.00	0.19	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.41
24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.13	0.29
25	0.0	0.0	0.12	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.07
26	0.00	0.0	0.01	0.01	0.11	0.0	0.0	0.00	0.0	0.0	0.00	0.02
27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.03
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.01	0.00
30	0.10	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.07	0.08
31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0
TOTAL	0.71	1.83	0.46	0.55	0.97	0.41	0.10	3.48	0.15	0.77	2.01	1.48
STA AV												

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.08
2	0.01	0.05	0.00	0.07	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.40	0.00
4	0.0	0.01	0.00	0.15	0.08	0.03	0.0	0.00	0.00	0.0	0.01	0.01
5	0.01	0.01	0.13	0.23	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.41	0.0
9	0.07	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.29	0.0
10	0.17	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.04
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.07
12	0.00	0.05	0.01	0.00	0.13	0.00	0.0	0.05	0.0	0.10	0.28	0.02
13	0.00	0.06	0.07	0.0	0.06	0.00	0.0	0.14	0.00	0.21	0.01	0.00
14	0.01	0.01	0.06	0.02	0.01	0.02	0.04	0.88	0.0	0.19	0.00	0.02
15	0.18	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.04	0.07	0.13
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.50	0.00	0.00	0.04	0.02
17	0.00	0.23	0.10	0.00	0.00	0.0	0.0	0.80	0.0	0.0	0.00	0.01
18	0.0	0.23	0.00	0.01	0.00	0.09	0.00	0.19	0.01	0.00	0.16	0.12
19	0.0	0.21	0.0	0.02	0.12	0.03	0.00	0.26	0.02	0.00	0.01	0.01
20	0.00	0.12	0.00	0.01	0.23	0.0	0.0	0.06	0.01	0.20	0.00	0.01
21	0.00	0.62	0.0	0.03	0.03	0.00	0.0	0.00	0.07	0.00	0.01	0.01
22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.09	0.13
23	0.00	0.20	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.47
24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.16	0.33
25	0.0	0.0	0.14	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.09
26	0.00	0.0	0.01	0.01	0.12	0.0	0.0	0.00	0.0	0.0	0.00	0.03
27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.04
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.01	0.00
30	0.12	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.09	0.09
31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0
TOTAL	0.82	1.93	0.59	0.66	1.04	0.43	0.10	3.63	0.17	0.81	2.26	1.77
STA AV												

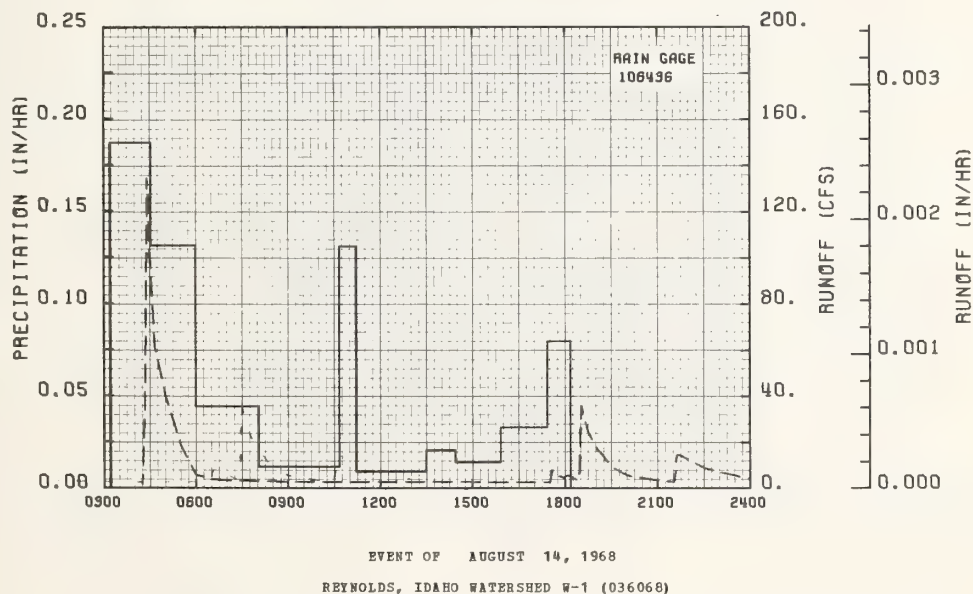
NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.03	3.19	14.14	4.28	3.59	1.69	2.01	0.17	0.37	0.42	0.43	1.01
2	2.70	3.91	15.41	4.35	3.20	1.60	1.63	0.14	0.34	0.38	0.48	1.07
3	1.44	4.51	15.39	3.77	3.42	1.82	1.57	0.21	0.37	0.40	0.64	1.18
4	1.61	4.24	16.91	3.21	2.99	1.95	1.34	0.27	0.51	0.41	0.68	1.11
5	2.82	3.67	18.56	4.20	3.99	2.36	1.35	0.25	0.50	0.43	0.56	1.07
6	1.34	2.53	16.20	4.20	3.40	2.31	1.50	0.17	0.50	0.40	0.54	1.01
7	1.48	2.54	13.47	3.22	2.56	1.94	1.52	0.72	0.54	0.40	0.57	0.98
8	1.64	2.62	12.02	2.91	2.46	2.10	1.49	1.80	0.51	0.38	0.75	1.08
9	4.11	2.32	10.84	2.91	2.06	2.41	1.59	3.24	0.52	0.42	7.03	1.05
10	4.83	2.31	9.20	2.88	2.15	2.33	1.40	2.60	0.49	0.44	3.50	1.01
11	1.94	1.98	8.44	3.47	2.78	2.01	1.45	1.91	0.52	0.37	1.73	1.39
12	3.53	1.88	8.40	3.98	4.68	1.98	1.33	1.72	0.55	0.33	1.11	1.43
13	4.63	2.19	8.16	3.45	3.56	1.95	1.28	1.84	0.56	0.40	0.86	1.47
14	4.69	1.70	7.79	2.98	2.49	2.01	1.13	6.79	0.58	0.46	0.73	2.48
15	5.40	2.11	7.24	2.72	2.64	1.96	0.82	2.11	0.53	0.39	0.81	2.59
16	6.71	2.14	6.60	2.96	2.73	1.82	0.67	1.73	0.50	0.33	0.78	2.60
17	3.55	2.35	5.30	3.22	2.32	1.91	0.64	7.50	0.43	0.28	0.75	2.01
18	3.69	12.25	4.47	3.48	2.60	1.86	0.80	2.06	0.38	0.30	0.86	1.73
19	8.14	33.31	2.81	4.13	2.63	1.80	0.69	1.70	0.39	0.29	0.88	1.77
20	3.96	83.21	2.92	3.78	3.56	1.80	0.90	1.38	0.43	0.39	0.91	1.76
21	3.91	132.29	2.75	3.93	3.25	1.88	0.64	1.09	0.43	0.39	0.91	1.19
22	3.67	49.27	2.48	3.63	3.18	1.95	0.58	0.72	0.42	0.35	0.93	1.30
23	3.80	110.51	2.37	3.72	2.89	1.95	0.50	0.44	0.45	0.38	0.89	1.78
24	3.76	51.47	2.21	3.87	2.56	1.95	0.44	0.41	0.47	0.37	1.06	13.51
25	3.78	33.09	2.40	3.57	2.30	1.95	0.40	0.42	0.53	0.36	1.07	11.53
26	2.33	26.41	2.51	3.46	3.09	1.66	0.48	0.36	0.51	0.35	1.26	6.38
27	3.19	20.57	2.26	3.31	3.04	1.71	0.43	0.36	0.37	0.36	1.28	3.41
28	2.31	17.14	2.29	3.22	2.55	1.24	0.40	0.36	0.37	0.39	1.07	4.02
29	2.96	14.86	2.37	3.23	2.33	1.37	0.40	0.35	0.40	0.39	1.10	4.24
30	6.55		2.89	3.61	2.22	1.73	0.25	0.37	0.41	0.41	1.21	2.55
31	5.62		3.01		2.11		0.25	0.35		0.43		3.44
MEAN	3.553	21.812	7.478	3.521	2.883	1.900	0.964	1.405	0.463	0.382	1.179	2.682
INCHES	0.045	0.261	0.096	0.044	0.037	0.024	0.012	0.018	0.006	0.005	0.015	0.034
STA AV	0.373	0.298	0.203	0.416	0.482	0.305	0.032	0.025	0.012	0.017	0.037	0.271

NOTES: To convert CFS to IN/DAY, multiply by 0.000413. STA AV based on 6 yr (1963-68) record period.

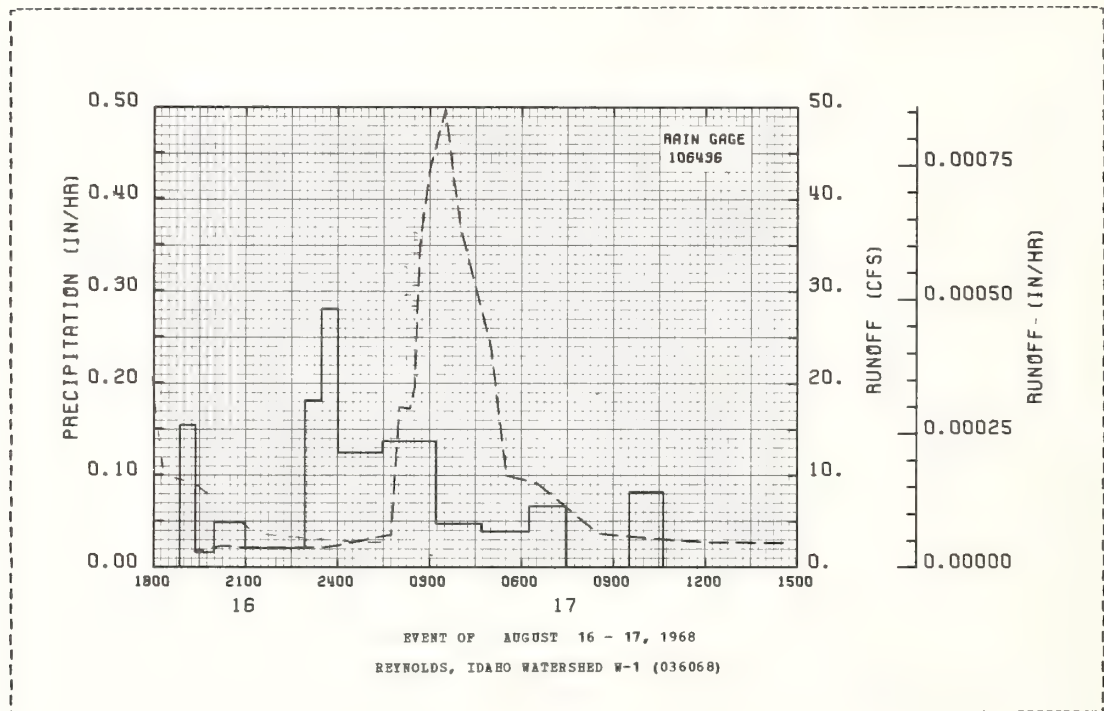
1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1968										
RG 106436			RG 106436							
8-14	0.0	0.000	8-14	312	0.0	0.0	8-14	415	1.80	0.0
				432	0.1875	0.25		420	33.14	0.0
				559	0.1310	0.44		425	134.37	0.0001
				802	0.0439	0.53		430	102.94	0.0003
				1040	0.0114	0.56		440	60.54	0.0005
WATERSHED CONDITIONS:				1112	0.1312	0.63		500	40.50	0.0008
Predominately sagebrush				1329	0.0088	0.65		530	18.36	0.0011
rangeland, 95%; small stands				1427	0.0207	0.67		600	5.34	0.0012
of forest, 2%; permanent				1555	0.0136	0.69		630	3.62	0.0012
fields of alfalfa irrigated				1726	0.0330	0.74		700	3.13	0.0012
from streamflow, 3%.				1811	0.0800	0.80		900	2.67	0.0013
								1200	2.58	0.0014
								1730	2.42	0.0016
								1735	7.74	0.0016
								1745	5.60	0.0016
								1755	4.49	0.0016
								1803	5.60	0.0016
								1825	3.22	0.0016
								1828	7.74	0.0016
								1830	24.26	0.0016
								1832	35.26	0.0016
								1845	24.26	0.0017
								1900	17.63	0.0018
								1930	9.20	0.0019
								2000	5.34	0.0020
								2100	3.13	0.0021
								2132	2.58	0.0021
								2135	7.74	0.0021
								2137	14.42	0.0021
								2140	14.63	0.0021
								2200	12.14	0.0022
								2230	8.53	0.0023
								2300	6.69	0.0024
								2330	5.34	0.0025
								2400	3.83	0.0025

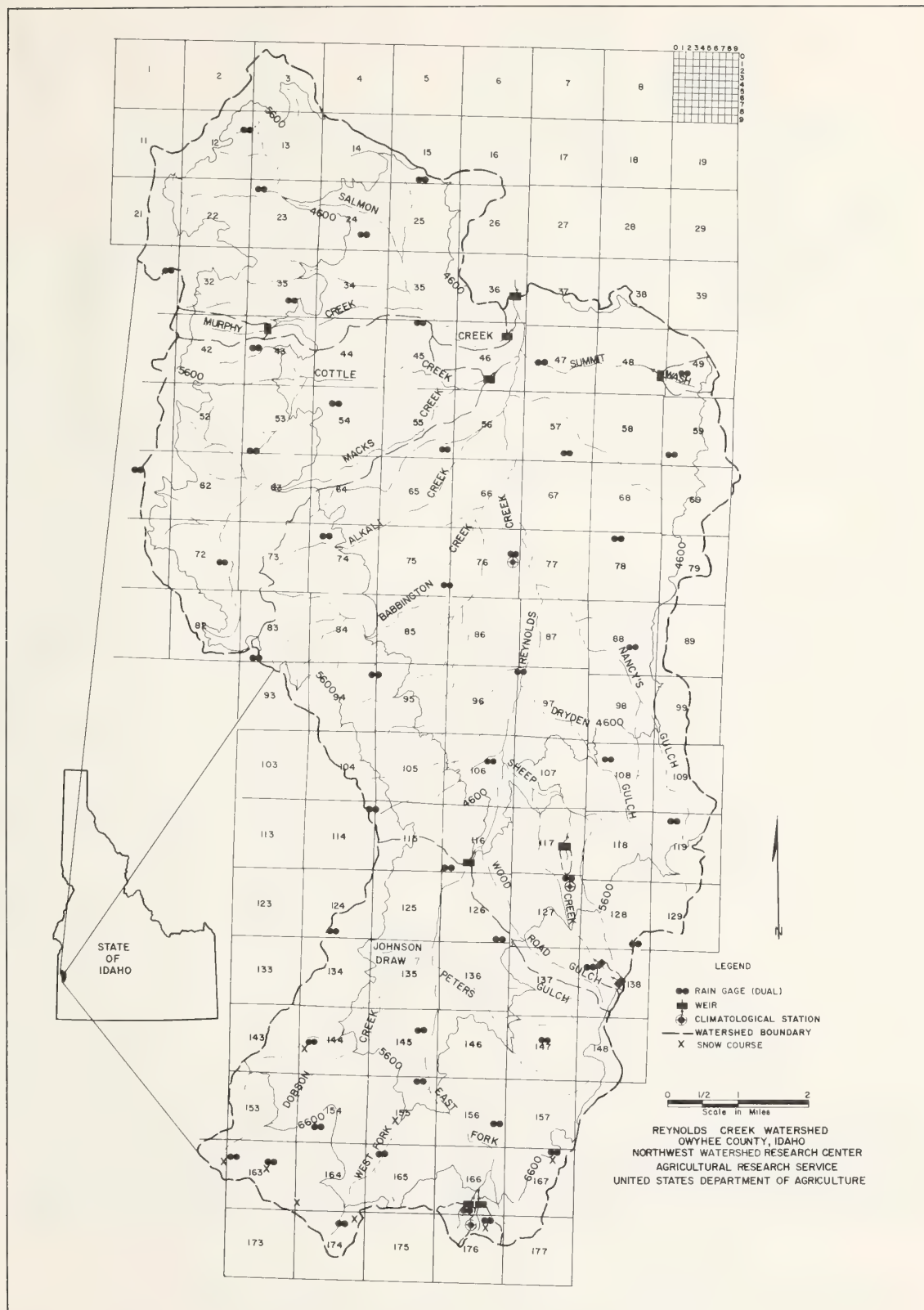
NOTES: To convert CFS to IN/HR, multiply by 0.00001717.



1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 16 - 17, 1968										
RG 106436			RG 106436							
8-16	0.02	0.001	8-16	1850	0.0	0.0	8-16	1920	1.73	0.0
				1921	0.1548	0.08		2010	2.33	0.0
				1958	0.0162	0.09		2100	2.10	0.0
				2059	0.0492	0.14		2320	2.10	0.0001
				2255	0.0207	0.18		2400	2.42	0.0001
WATERSHED CONDITIONS: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of alfalfa irrigated from streamflow, 3%.				2328	0.1818	0.28	8-17	145	3.62	0.0002
				2400	0.2812	0.43		200	17.38	0.0002
			8-17	127	0.1241	0.61		220	17.14	0.0003
				312	0.1371	0.85		230	19.62	0.0004
				441	0.0472	0.92		240	34.90	0.0005
				614	0.0387	0.98		300	43.30	0.0007
				726	0.0667	1.06		330	49.67	0.0011
				931	0.0	1.06		385	42.49	0.0013
				1037	0.0818	1.15		400	36.71	0.0015
								500	23.68	0.0020
								530	9.89	0.0021
								630	9.03	0.0023
								830	3.62	0.0025
								1000	3.13	0.0026
								1200	2.67	0.0027
								2400	2.25	0.0032

NOTES: To convert CFS to IN/HR, multiply by 0.00001717.





REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	16.60															
	Q	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054	0.745															
STA AV	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	0.0															
	Q	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093	2.331															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.													
1968		2-21	0.003	2-21	0.003	2-21	0.006	2-21	0.016	2-21	0.026	2-21	0.039	2-21	0.069	2-18	0.202												
MAXIMUMS FOR PERIOD OF RECORD																													
		8-23	0.073	8-23	0.044	8-23	0.056	1-28	0.114	1-28	0.208	1-28	0.379	1-28	0.766	1-28	1.495												
		1965		1965		1965		1965		1965		1965		1965		1965													

NOTES: Watershed conditions: Predominately sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 68,2-7. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 59 miles N.E. of Watershed.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.10	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	
	2	0.02	0.07	0.00	0.12	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00	
	3	0.01	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.38	0.0	
	4	0.0	0.04	0.0	0.21	0.09	0.00	0.0	0.01	0.0	0.0	0.00	0.05	
	5	0.04	0.0	0.16	0.28	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0	
	8	0.04	0.00	0.0	0.0	0.0	0.26	0.01	0.0	0.0	0.0	0.61	0.0	
	9	0.09	0.01	0.0	0.0	0.0	0.0	0.00	0.41	0.0	0.0	0.08	0.0	
	10	0.17	0.0	0.0	0.0	0.12	0.00	0.0	0.22	0.0	0.0	0.03	0.05	
	11	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.04	0.0	0.04	0.07	0.08	
	12	0.0	0.10	0.00	0.0	0.23	0.0	0.0	0.05	0.0	0.07	0.45	0.0	
	13	0.0	0.08	0.08	0.0	0.08	0.0	0.0	0.08	0.0	0.20	0.01	0.01	
	14	0.01	0.00	0.12	0.0	0.01	0.0	0.07	0.73	0.0	0.20	0.0	0.03	
	15	0.21	0.02	0.0	0.01	0.02	0.0	0.0	0.0	0.03	0.05	0.08	0.12	
	16	0.10	0.0	0.02	0.01	0.00	0.0	0.0	0.47	0.0	0.00	0.13	0.02	
	17	0.01	0.26	0.25	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.00	
	18	0.0	0.36	0.0	0.05	0.0	0.01	0.0	0.16	0.02	0.0	0.18	0.09	
	19	0.0	0.35	0.0	0.06	0.14	0.0	0.0	0.32	0.0	0.0	0.00	0.04	
	20	0.0	0.18	0.0	0.02	0.32	0.0	0.0	0.05	0.04	0.31	0.02	0.01	
	21	0.0	0.65	0.0	0.11	0.11	0.0	0.0	0.0	0.16	0.0	0.00	0.0	
	22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.06	0.17	
	23	0.0	0.33	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.69	
	24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.15	0.29	
	25	0.0	0.0	0.19	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.11	
	26	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
	27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01	
	28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01	
	29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0	
	30	0.06	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.10	0.10	
	31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	
TOTAL		0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	
STA AV		0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08	0.00	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
2	0.01	0.06	0.00	0.10	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.33	0.0
4	0.0	0.04	0.0	0.15	0.07	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.03	0.0	0.12	0.21	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0
8	0.03	0.00	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.51	0.0
9	0.05	0.01	0.0	0.0	0.0	0.0	0.00	0.39	0.0	0.0	0.07	0.0
10	0.10	0.0	0.0	0.0	0.08	0.00	0.0	0.21	0.0	0.0	0.02	0.05
11	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.04	0.0	0.04	0.06	0.06
12	0.0	0.09	0.00	0.0	0.20	0.0	0.0	0.05	0.0	0.06	0.34	0.0
13	0.0	0.06	0.05	0.0	0.07	0.0	0.0	0.07	0.0	0.16	0.01	0.01
14	0.01	0.00	0.07	0.0	0.01	0.0	0.05	0.69	0.0	0.17	0.0	0.02
15	0.15	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.02	0.04	0.05	0.09
16	0.07	0.0	0.01	0.01	0.00	0.0	0.0	0.42	0.0	0.00	0.08	0.02
17	0.01	0.24	0.13	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.00
18	0.0	0.32	0.0	0.03	0.0	0.00	0.0	0.14	0.02	0.0	0.12	0.07
19	0.0	0.31	0.0	0.04	0.11	0.0	0.0	0.30	0.0	0.0	0.00	0.02
20	0.0	0.16	0.0	0.01	0.26	0.0	0.0	0.04	0.03	0.28	0.02	0.00
21	0.0	0.59	0.0	0.08	0.11	0.0	0.0	0.0	0.10	0.0	0.00	0.0
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.05	0.12
23	0.0	0.29	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.53
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.12	0.22
25	0.0	0.0	0.14	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.07
26	0.0	0.0	0.0	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.07	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.61	2.23	0.53	0.71	1.41	0.33	0.09	3.34	0.17	0.78	1.99	1.55
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
2	0.01	0.07	0.00	0.11	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.35	0.0
4	0.0	0.04	0.0	0.18	0.08	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.04	0.0	0.14	0.24	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.56	0.0
9	0.07	0.01	0.0	0.0	0.0	0.0	0.00	0.40	0.0	0.0	0.07	0.0
10	0.13	0.0	0.0	0.0	0.10	0.00	0.0	0.21	0.0	0.0	0.03	0.05
11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.04	0.0	0.04	0.06	0.07
12	0.0	0.10	0.00	0.0	0.22	0.0	0.0	0.05	0.0	0.06	0.39	0.0
13	0.0	0.07	0.06	0.0	0.07	0.0	0.0	0.07	0.0	0.18	0.01	0.01
14	0.01	0.00	0.09	0.0	0.01	0.0	0.06	0.71	0.0	0.19	0.0	0.03
15	0.18	0.01	0.0	0.00	0.02	0.0	0.0	0.0	0.02	0.05	0.06	0.10
16	0.09	0.0	0.01	0.01	0.00	0.0	0.0	0.45	0.0	0.00	0.11	0.02
17	0.01	0.25	0.18	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.00
18	0.0	0.34	0.0	0.04	0.0	0.00	0.0	0.15	0.02	0.0	0.15	0.08
19	0.0	0.33	0.0	0.05	0.12	0.0	0.0	0.31	0.0	0.0	0.00	0.03
20	0.0	0.17	0.0	0.02	0.29	0.0	0.0	0.04	0.04	0.30	0.02	0.00
21	0.0	0.62	0.0	0.10	0.11	0.0	0.0	0.0	0.13	0.0	0.00	0.0
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.06	0.14
23	0.0	0.31	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.61
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.14	0.25
25	0.0	0.0	0.17	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.09
26	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.04
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0
30	0.06	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.09	0.09
31	0.01	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.73	2.37	0.66	0.83	1.54	0.35	0.10	3.46	0.21	0.84	2.25	1.79
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 shielded recording gages. STA AV do not apply to shielded rain gage records.

REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
MEAN DAILY DISCHARGE (cfs)												
1968	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Day												
1	1.101	0.992	3.190	1.056	0.659	0.087	0.031	0.019	0.009	0.009	0.230	0.570
2	0.865	1.202	2.940	1.182	0.718	0.087	0.031	0.016	0.009	0.009	0.209	0.685
3	0.618	1.287	2.698	1.115	0.704	0.102	0.031	0.016	0.009	0.009	0.344	0.593
4	0.821	1.249	2.473	1.109	0.783	0.117	0.027	0.019	0.009	0.009	0.334	0.620
5	1.080	1.194	2.589	1.556	0.894	0.126	0.023	0.023	0.009	0.009	0.257	0.592
6	0.641	1.120	2.527	1.373	0.801	0.134	0.023	0.027	0.009	0.009	0.272	0.510
7	0.683	1.143	2.315	1.236	0.706	0.143	0.023	0.031	0.009	0.009	0.290	0.540
8	1.006	1.069	2.136	1.187	0.626	0.152	0.023	0.031	0.009	0.012	0.448	0.638
9	1.043	1.010	2.046	1.135	0.576	0.143	0.023	0.031	0.009	0.016	0.547	0.550
10	0.982	1.121	1.908	1.077	0.668	0.134	0.023	0.027	0.009	0.019	0.408	0.582
11	0.620	0.991	1.976	1.070	0.707	0.126	0.023	0.019	0.009	0.027	0.417	0.689
12	0.638	0.898	1.875	1.059	0.870	0.117	0.027	0.016	0.009	0.041	0.613	0.393
13	1.067	1.002	1.905	0.970	0.795	0.117	0.027	0.012	0.009	0.069	0.490	0.423
14	0.899	0.859	1.867	0.983	0.715	0.117	0.023	0.009	0.009	0.071	0.385	0.550
15	1.270	1.156	1.954	0.950	0.663	0.117	0.023	0.009	0.009	0.081	0.422	0.661
16	1.116	1.099	1.644	0.970	0.608	0.110	0.023	0.009	0.009	0.087	0.448	0.558
17	0.833	1.322	1.832	0.803	0.519	0.095	0.023	0.009	0.009	0.095	0.440	0.422
18	0.966	3.866	1.633	0.804	0.472	0.081	0.023	0.009	0.009	0.106	0.583	0.470
19	1.057	5.668	1.564	0.801	0.562	0.074	0.027	0.009	0.009	0.116	0.638	0.486
20	1.090	12.533	1.790	0.714	0.698	0.074	0.031	0.009	0.009	0.184	0.602	0.383
21	1.011	13.802	1.497	0.753	0.619	0.068	0.027	0.009	0.009	0.202	0.592	0.367
22	1.013	8.830	1.360	0.722	0.524	0.062	0.023	0.009	0.009	0.144	0.584	0.437
23	1.046	14.261	1.282	0.701	0.516	0.056	0.023	0.009	0.009	0.153	0.620	0.584
24	1.126	8.793	1.188	0.618	0.385	0.050	0.023	0.009	0.009	0.192	0.731	1.602
25	1.116	6.350	1.135	0.567	0.240	0.050	0.023	0.009	0.009	0.192	0.598	1.329
26	0.909	5.359	1.074	0.571	0.352	0.050	0.023	0.009	0.009	0.143	0.532	1.039
27	0.979	4.398	1.067	0.515	0.244	0.045	0.023	0.009	0.009	0.168	0.594	0.863
28	0.747	3.936	1.054	0.488	0.131	0.045	0.023	0.009	0.009	0.197	0.597	0.856
29	1.173	3.697	1.001	0.457	0.094	0.045	0.023	0.009	0.009	0.199	0.566	0.609
30	1.129		1.000	0.435	0.096	0.036	0.023	0.009	0.009	0.206	0.586	0.820
31	0.966		1.007		0.081		0.023	0.009		0.212		0.970
MEAN	0.9552	3.8002	1.7910	0.8993	0.5493	0.0921	0.0246	0.0146	0.0092	0.0966	0.4793	0.6578
INCHES	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054
STA AV	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093

NOTES: To convert CFS to IN/DAY, multiply by. 0.002648.

REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968 P	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	14.82	
O	0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008	0.472	
STA AV P	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	0.0	
O	0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022	0.869	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	2-21	0.005	2-21	0.005	2-21	0.010	2-21	0.026	2-21	0.039	2-21	0.054	2-19	0.081
													2-18	0.208
MAXIMUMS FOR PERIOD OF RECORD														
	1-21	0.011	1-21	0.010	1-21	0.020	1-21	0.053	1-21	0.096	1-21	0.124	1-21	0.150
1967			1967		1967		1967		1967		1967		1967	0.286

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluebunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and haycrops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.10	0.00	0.0	0.08	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.08		
2	0.01	0.08	0.00	0.14	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.02		
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00		
4	0.0	0.01	0.0	0.16	0.07	0.01	0.0	0.00	0.00	0.0	0.01	0.02		
5	0.02	0.0	0.22	0.37	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01		
6	0.01	0.0	0.04	0.01	0.00	0.03	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0		
8	0.03	0.0	0.0	0.0	0.00	0.11	0.01	0.0	0.0	0.0	0.57	0.0		
9	0.06	0.0	0.0	0.0	0.00	0.00	0.00	0.42	0.0	0.0	0.07	0.0		
10	0.19	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.05		
11	0.0	0.0	0.0	0.0	0.13	0.01	0.0	0.01	0.0	0.02	0.06	0.06		
12	0.0	0.05	0.01	0.00	0.32	0.0	0.0	0.06	0.0	0.09	0.35	0.00		
13	0.0	0.12	0.06	0.0	0.08	0.0	0.0	0.08	0.00	0.15	0.01	0.00		
14	0.0	0.02	0.08	0.0	0.02	0.01	0.05	1.10	0.0	0.18	0.01	0.04		
15	0.14	0.02	0.0	0.01	0.05	0.0	0.0	0.00	0.06	0.05	0.06	0.10		
16	0.11	0.00	0.00	0.02	0.01	0.00	0.0	0.45	0.0	0.02	0.07	0.03		
17	0.0	0.26	0.17	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.01		
18	0.0	0.33	0.00	0.03	0.00	0.00	0.00	0.16	0.01	0.00	0.20	0.10		
19	0.0	0.19	0.0	0.04	0.09	0.0	0.0	0.27	0.00	0.0	0.04	0.01		
20	0.0	0.12	0.00	0.00	0.19	0.0	0.0	0.03	0.03	0.30	0.01	0.00		
21	0.0	0.62	0.0	0.07	0.09	0.00	0.0	0.01	0.16	0.00	0.03	0.01		
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.11	0.10		
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.44		
24	0.01	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.15	0.33		
25	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02	0.09		
26	0.0	0.0	0.00	0.00	0.10	0.0	0.0	0.00	0.0	0.0	0.01	0.02		
27	0.01	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.01	0.00		
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01		
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.03	0.00		
30	0.20	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.09	0.06		
31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58		
STA AV	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58		

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Gellio, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.05
2	0.01	0.06	0.00	0.08	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.01
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.28	0.00
4	0.0	0.01	0.0	0.10	0.05	0.01	0.0	0.00	0.00	0.0	0.01	0.01
5	0.02	0.0	0.15	0.21	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01
6	0.01	0.0	0.03	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.00	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.54	0.0
9	0.04	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.06	0.0
10	0.11	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0	0.01	0.04
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.05	0.05
12	0.0	0.04	0.00	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.28	0.00
13	0.0	0.11	0.03	0.0	0.08	0.0	0.0	0.07	0.00	0.14	0.01	0.00
14	0.0	0.01	0.04	0.0	0.02	0.01	0.04	1.03	0.0	0.16	0.01	0.03
15	0.08	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.03	0.05	0.04	0.08
16	0.06	0.00	0.00	0.01	0.01	0.00	0.0	0.44	0.0	0.01	0.04	0.02
17	0.0	0.24	0.08	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00
18	0.0	0.31	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.12	0.07
19	0.0	0.19	0.0	0.02	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00
20	0.0	0.11	0.00	0.00	0.17	0.0	0.0	0.03	0.01	0.29	0.01	0.00
21	0.0	0.62	0.0	0.03	0.09	0.00	0.0	0.01	0.08	0.00	0.02	0.00
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.06	0.07
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.35
24	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.10	0.25
25	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.06
26	0.0	0.0	0.00	0.00	0.09	0.0	0.0	0.00	0.0	0.0	0.00	0.02
27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.00	0.00
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	0.00
30	0.10	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.05	0.05
31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.58	2.04	0.45	0.52	1.25	0.22	0.07	3.25	0.15	0.81	1.88	1.17
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.10	0.00	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07
2	0.01	0.07	0.00	0.10	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.01
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00
4	0.0	0.01	0.0	0.12	0.06	0.01	0.0	0.00	0.00	0.0	0.01	0.01
5	0.02	0.0	0.18	0.28	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01
6	0.01	0.0	0.04	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.55	0.0
9	0.05	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.07	0.0
10	0.15	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.04
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.06	0.05
12	0.0	0.05	0.01	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.32	0.00
13	0.0	0.12	0.04	0.0	0.08	0.0	0.0	0.07	0.00	0.15	0.01	0.00
14	0.0	0.01	0.06	0.0	0.02	0.01	0.04	1.06	0.0	0.17	0.01	0.04
15	0.11	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.04	0.05	0.05	0.09
16	0.08	0.00	0.00	0.01	0.01	0.00	0.0	0.45	0.0	0.01	0.05	0.02
17	0.0	0.25	0.12	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00
18	0.0	0.32	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.15	0.09
19	0.0	0.19	0.0	0.03	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00
20	0.0	0.11	0.00	0.00	0.18	0.0	0.0	0.03	0.02	0.30	0.01	0.00
21	0.0	0.62	0.0	0.04	0.09	0.00	0.0	0.01	0.12	0.00	0.03	0.00
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.08	0.08
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.40
24	0.01	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.12	0.28
25	0.0	0.0	0.12	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.08
26	0.0	0.0	0.00	0.00	0.10	0.0	0.0	0.00	0.0	0.0	0.01	0.02
27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.01	0.00
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	0.00
30	0.15	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.07	0.05
31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.73	2.09	0.58	0.69	1.30	0.22	0.07	3.31	0.20	0.84	2.09	1.37
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 shielded recording gages. STA AV do not apply to shielded rain gage records.

REYNOLDS, IDAHO WACKS CREEK WATERSHED (046084)													
MEAN DAILY DISCHARGE (cfs)													
1968	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1	0.433	0.425	1.229	0.430	0.272	0.138	0.043	0.011	0.006	0.006	0.011	0.011
	2	0.301	0.683	1.225	0.641	0.230	0.130	0.034	0.011	0.006	0.006	0.011	0.011
	3	0.171	0.779	1.434	0.535	0.263	0.122	0.030	0.011	0.006	0.006	0.011	0.011
	4	0.276	0.768	1.432	0.641	0.404	0.122	0.030	0.011	0.006	0.006	0.014	0.011
	5	0.350	0.725	1.356	0.771	0.473	0.122	0.030	0.011	0.006	0.006	0.017	0.011
7	6	0.186	0.624	1.433	0.698	0.376	0.122	0.030	0.011	0.006	0.006	0.017	0.011
	7	0.144	0.682	1.328	0.803	0.293	0.122	0.030	0.011	0.006	0.006	0.017	0.011
	8	0.164	0.611	1.233	0.609	0.252	0.122	0.030	0.011	0.006	0.006	0.017	0.011
	9	0.541	0.498	0.956	0.473	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.011
	10	0.616	0.543	0.556	0.544	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.014
11	11	0.267	0.397	0.563	0.584	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.017
	12	0.268	0.340	0.645	0.501	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.017
	13	0.363	0.321	0.645	0.605	0.220	0.114	0.030	0.011	0.006	0.006	0.017	0.020
	14	0.369	0.280	0.660	0.826	0.210	0.107	0.030	0.011	0.006	0.006	0.017	0.026
	15	0.625	0.343	0.678	0.639	0.210	0.100	0.030	0.011	0.006	0.006	0.017	0.039
16	16	0.572	0.320	0.668	0.487	0.210	0.093	0.026	0.011	0.006	0.006	0.017	0.047
	17	0.355	0.486	0.760	0.485	0.201	0.087	0.023	0.011	0.006	0.006	0.017	0.043
	18	0.375	6.757	0.782	0.574	0.191	0.080	0.023	0.011	0.006	0.006	0.017	0.048
	19	0.409	5.436	0.737	0.608	0.191	0.074	0.023	0.011	0.006	0.006	0.017	0.057
	20	0.410	10.362	0.737	0.543	0.189	0.068	0.023	0.011	0.006	0.006	0.014	0.057
21	21	0.443	16.656	0.651	0.568	0.172	0.063	0.023	0.011	0.006	0.006	0.011	0.057
	22	0.433	7.262	0.738	0.659	0.163	0.052	0.023	0.011	0.006	0.006	0.011	0.075
	23	0.454	12.137	0.737	0.628	0.163	0.047	0.020	0.009	0.006	0.006	0.011	0.115
	24	0.453	5.512	0.809	0.557	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.714
	25	0.460	3.983	1.189	0.571	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.544
26	26	0.382	2.820	1.210	0.631	0.172	0.052	0.017	0.006	0.006	0.006	0.011	0.182
	27	0.337	1.969	1.024	0.513	0.163	0.057	0.017	0.006	0.006	0.006	0.011	0.138
	28	0.270	1.615	0.952	0.393	0.154	0.057	0.014	0.006	0.006	0.006	0.011	0.107
	29	0.360	1.289	0.774	0.341	0.154	0.052	0.011	0.006	0.006	0.006	0.011	0.100
	30	0.424		0.492	0.285	0.166	0.047	0.011	0.006	0.006	0.006	0.011	0.107
31	31	0.406		0.337		0.138		0.011	0.006		0.009		0.107
	MEAN	0.3735	2.9179	0.9025	0.5715	0.2226	0.0896	0.0247	0.0099	0.0065	0.0066	0.0141	0.0882
	INCHES	0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008
	STA AV	0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022

NOTES: To convert CPS to IN/DAY, multiply by 0.003034.

REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River.

AREA: 13453.00 acres 21.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	24.96					
	O	0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157	3.184					
STA AV	P	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	0.0					
	O	0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144	6.373					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		2-21	0.013	2-21	0.013	2-21	0.025	2-21	0.057	2-21	0.100	2-21	0.140	2-19	0.216	2-19	0.588		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-7	0.021	6-7	0.019	6-7	0.036	6-7	0.082	6-7	0.129	6-7	0.214	6-7	0.417	5-17	1.523		
		1967		1967		1967		1967		1967		1967		1967		1967			

NOTES: Watershed condition - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominately of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 25% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.4-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 16 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of Watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)													REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)	
Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches		
144062	011568	5.90	020168	5.80	021568	6.30	030168	4.25				121168	1.71	
155054			020168	5.40	021568	6.20	030168	4.30				121168	1.04	
163020	011568	10.00	020168	10.90	021568	11.30	030168	13.90	031568	15.20		121168	4.80	
163098	011568	7.40	020168	9.30	021568	9.60	030168	12.80	031568	12.00		121168	3.00	
167007	011568	4.90	020168	5.40	021568	4.20	030168	4.40	031568	4.90		121168	2.10	
174026	011568	6.80	020168	9.10	021568	9.04	030168	11.60	031568	10.90		121168	2.65	
DAILY PRECIPITATION (inches)														
1968	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.16	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
	2	0.04	0.12	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.0	0.20	0.02	
	3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.51	0.0	
	4	0.0	0.01	0.00	0.38	0.11	0.10	0.0	0.00	0.0	0.0	0.04	0.01	
	5	0.0	0.02	0.21	0.45	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.01	
	6	0.0	0.00	0.06	0.02	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.04	0.0	
	8	0.09	0.0	0.0	0.00	0.0	0.28	0.00	0.0	0.0	0.0	0.49	0.0	
	9	0.18	0.0	0.00	0.0	0.01	0.01	0.15	0.25	0.0	0.0	1.09	0.0	
	10	0.17	0.0	0.0	0.0	0.01	0.0	0.0	0.42	0.01	0.0	0.05	0.04	
	11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.06	0.15	
	12	0.00	0.04	0.00	0.0	0.11	0.00	0.0	0.02	0.0	0.14	0.39	0.07	
	13	0.00	0.07	0.18	0.0	0.08	0.00	0.0	0.38	0.00	0.32	0.02	0.0	
	14	0.05	0.01	0.15	0.16	0.0	0.02	0.04	1.12	0.0	0.30	0.00	0.06	
	15	0.43	0.07	0.0	0.11	0.06	0.0	0.0	0.00	0.12	0.08	0.22	0.22	
	16	0.07	0.04	0.05	0.04	0.01	0.0	0.0	0.69	0.00	0.00	0.04	0.05	
	17	0.00	0.33	0.17	0.00	0.01	0.0	0.0	0.81	0.0	0.0	0.0	0.01	
	18	0.0	0.37	0.01	0.02	0.0	0.07	0.0	0.38	0.03	0.0	0.25	0.39	
	19	0.0	0.51	0.0	0.04	0.14	0.11	0.00	0.38	0.06	0.01	0.0	0.02	
	20	0.01	0.26	0.0	0.03	0.32	0.0	0.0	0.12	0.01	0.25	0.00	0.03	
	21	0.01	1.09	0.0	0.02	0.0	0.00	0.0	0.01	0.16	0.0	0.04	0.03	
	22	0.01	0.17	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.17	0.33	
	23	0.0	0.37	0.0	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.04	0.95	
	24	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.46	0.80	
	25	0.0	0.0	0.25	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.04	0.15	
	26	0.01	0.0	0.0	0.02	0.15	0.0	0.0	0.00	0.0	0.0	0.00	0.06	
	27	0.02	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.17	
	28	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.00	0.0	0.0	0.00	0.14	
	29	0.04	0.00	0.0	0.0	0.00	0.04	0.00	0.00	0.0	0.04	0.04	0.01	
	30	0.22		0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.04	0.16	0.12	
	31	0.09		0.0		0.0		0.0	0.0		0.00		0.0	
	TOTAL	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	
	STA AV	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 15 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Gailo, Norway, August, 1972. The equation used is: $\log_e (O/A) = \log_e (O/S) \times 1.80$, where O = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

Cooperative Research Project of USDA and USDI and Idaho Agricultural Experiment Station

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.11	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
2	0.02	0.09	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.0	0.16	0.01
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.43	0.0
4	0.0	0.00	0.00	0.28	0.09	0.09	0.0	0.00	0.0	0.0	0.03	0.01
5	0.0	0.00	0.15	0.32	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.00
6	0.0	0.00	0.05	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.03	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0
8	0.05	0.0	0.0	0.00	0.0	0.25	0.00	0.0	0.0	0.0	0.40	0.0
9	0.13	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.83	0.0
10	0.24	0.0	0.0	0.0	0.01	0.0	0.0	0.40	0.01	0.0	0.03	0.02
11	0.00	0.0	0.0	0.00	0.05	0.01	0.0	0.01	0.00	0.04	0.04	0.09
12	0.00	0.03	0.00	0.0	0.09	0.00	0.0	0.02	0.0	0.12	0.28	0.05
13	0.00	0.06	0.10	0.0	0.06	0.00	0.0	0.29	0.00	0.28	0.01	0.0
14	0.03	0.01	0.08	0.05	0.0	0.01	0.02	0.94	0.0	0.25	0.00	0.04
15	0.38	0.06	0.0	0.06	0.04	0.0	0.0	0.00	0.11	0.07	0.14	0.13
16	0.06	0.03	0.03	0.03	0.01	0.0	0.0	0.56	0.00	0.00	0.03	0.03
17	0.00	0.28	0.09	0.00	0.01	0.0	0.0	0.65	0.0	0.0	0.0	0.01
18	0.0	0.32	0.00	0.02	0.0	0.07	0.0	0.32	0.02	0.0	0.16	0.20
19	0.0	0.46	0.0	0.02	0.13	0.09	0.00	0.31	0.03	0.01	0.0	0.01
20	0.00	0.24	0.0	0.02	0.29	0.0	0.0	0.11	0.01	0.22	0.00	0.02
21	0.01	1.00	0.0	0.02	0.0	0.00	0.0	0.01	0.09	0.0	0.02	0.01
22	0.01	0.15	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.11	0.17
23	0.0	0.33	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.65
24	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.0	0.27	0.54
25	0.0	0.0	0.16	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.02	0.08
26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.03
27	0.01	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.09
28	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.0	0.00	0.08
29	0.02	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.03	0.02	0.00
30	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.03	0.10	0.07
31	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0
TOTAL	1.31	3.10	0.70	0.95	1.17	0.73	0.17	3.89	0.28	1.06	3.16	2.44
STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.13	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
2	0.03	0.10	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.0	0.18	0.02
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.47	0.0
4	0.0	0.00	0.00	0.33	0.10	0.09	0.0	0.00	0.0	0.0	0.04	0.01
5	0.0	0.01	0.18	0.38	0.06	0.02	0.0	0.0	0.0	0.0	0.0	0.00
6	0.0	0.00	0.06	0.02	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.04	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0
8	0.07	0.0	0.0	0.00	0.0	0.27	0.00	0.0	0.0	0.0	0.44	0.0
9	0.15	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.95	0.0
10	0.30	0.0	0.0	0.0	0.01	0.0	0.0	0.41	0.01	0.0	0.04	0.03
11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.05	0.12
12	0.00	0.04	0.00	0.0	0.10	0.00	0.0	0.02	0.0	0.13	0.33	0.06
13	0.00	0.07	0.14	0.0	0.07	0.00	0.0	0.34	0.00	0.30	0.01	0.0
14	0.04	0.01	0.11	0.09	0.0	0.02	0.03	1.03	0.0	0.28	0.00	0.05
15	0.41	0.07	0.0	0.08	0.05	0.0	0.0	0.00	0.12	0.07	0.18	0.17
16	0.07	0.03	0.04	0.04	0.01	0.0	0.0	0.62	0.00	0.00	0.03	0.04
17	0.00	0.31	0.13	0.00	0.01	0.0	0.0	0.73	0.0	0.0	0.0	0.01
18	0.0	0.35	0.00	0.02	0.0	0.07	0.0	0.35	0.02	0.0	0.20	0.29
19	0.0	0.49	0.0	0.03	0.14	0.10	0.00	0.34	0.04	0.01	0.0	0.02
20	0.00	0.25	0.0	0.02	0.31	0.0	0.0	0.12	0.01	0.24	0.00	0.03
21	0.01	1.05	0.0	0.02	0.0	0.00	0.0	0.01	0.12	0.0	0.03	0.02
22	0.01	0.16	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.14	0.24
23	0.0	0.35	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.78
24	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.36	0.66
25	0.0	0.0	0.20	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.03	0.11
26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.04
27	0.02	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.13
28	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.00	0.0	0.0	0.00	0.11
29	0.03	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.04	0.03	0.01
30	0.17	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.04	0.13	0.09
31	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0
TOTAL	1.55	3.31	0.90	1.17	1.25	0.79	0.18	4.24	0.33	1.15	3.72	3.11
STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.190	1.510	13.316	10.297	15.833	8.103	1.681	0.009	0.235	0.309	1.034	2.581
2	2.190	1.743	12.305	9.895	15.520	7.779	1.477	0.012	0.285	0.349	1.309	2.410
3	2.043	1.737	11.655	8.824	15.942	7.588	1.116	0.016	0.335	0.363	1.767	2.333
4	1.728	1.785	11.977	9.396	17.171	7.586	0.981	0.012	0.297	0.377	1.743	2.275
5	1.890	1.770	12.422	12.421	16.771	7.527	0.914	0.012	0.246	0.392	1.419	2.247
6	1.436	1.766	11.861	9.968	14.028	7.569	0.732	0.012	0.203	0.438	1.190	2.218
7	1.036	1.780	11.044	9.212	12.564	7.131	1.056	0.012	0.161	0.500	1.122	2.190
8	1.466	1.854	9.872	8.763	12.522	7.014	0.449	0.016	0.143	0.550	1.466	2.190
9	1.752	1.824	8.623	9.281	13.112	7.606	0.493	0.023	0.134	0.584	1.979	2.145
10	1.712	1.901	8.002	10.088	14.342	6.108	0.734	0.027	0.126	0.567	3.905	2.290
11	1.831	1.759	7.748	11.886	14.302	5.384	0.423	0.019	0.102	0.567	3.180	2.124
12	1.670	1.717	7.479	11.748	15.095	5.050	0.328	0.016	0.087	0.676	3.836	1.882
13	1.649	1.697	7.924	10.245	14.317	4.838	0.372	0.016	0.081	0.934	2.852	1.877
14	1.662	1.842	7.014	10.992	12.925	4.520	0.297	0.664	0.088	1.121	2.288	2.233
15	3.600	1.746	6.519	11.516	12.480	4.089	0.268	0.834	0.157	1.121	2.584	2.217
16	3.272	1.654	6.604	10.514	11.621	3.927	0.240	0.376	0.212	1.014	2.411	2.100
17	2.342	2.621	6.471	9.640	11.516	3.617	0.219	3.995	0.212	0.929	2.370	1.951
18	2.116	7.139	5.964	9.496	11.249	3.359	0.116	2.480	0.235	0.908	3.117	1.974
19	2.025	20.502	5.587	9.202	11.165	3.335	0.079	2.991	0.311	0.993	4.338	1.972
20	1.898	45.964	5.577	8.818	14.440	3.384	0.056	2.488	0.440	1.143	4.002	1.847
21	1.984	76.350	5.598	7.896	11.955	3.069	0.050	2.049	0.568	1.122	3.689	1.670
22	1.996	30.700	5.868	7.862	11.443	2.795	0.045	1.661	0.585	1.034	4.489	1.857
23	1.982	74.690	5.852	7.660	11.861	2.813	0.036	1.230	0.517	1.013	3.785	2.382
24	1.778	37.989	5.965	7.759	11.351	2.551	0.027	0.942	0.423	0.992	3.522	10.509
25	1.810	23.849	6.601	8.063	10.902	2.435	0.023	0.708	0.349	0.950	3.516	6.113
26	1.759	19.670	6.235	8.192	11.123	2.091	0.019	0.595	0.297	0.929	3.158	3.962
27	2.244	15.672	6.212	8.408	10.647	1.859	0.016	0.445	0.246	0.929	3.144	3.015
28	2.039	13.796	7.193	9.423	9.873	2.020	0.016	0.498	0.246	0.950	2.685	3.382
29	1.654	13.014	8.841	12.182	9.436	2.161	0.016	0.468	0.270	0.992	2.621	6.150
30	1.765		9.544	14.760	8.878	1.940	0.016	0.408	0.283	1.013	2.653	3.722
31	1.611		9.001		8.705		0.012	0.299		1.013		2.689
MEAN	1.940	14.119	8.222	9.813	12.678	4.640	0.397	0.753	0.262	0.799	3.039	2.855
INCHES	0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157
STA AV	0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144

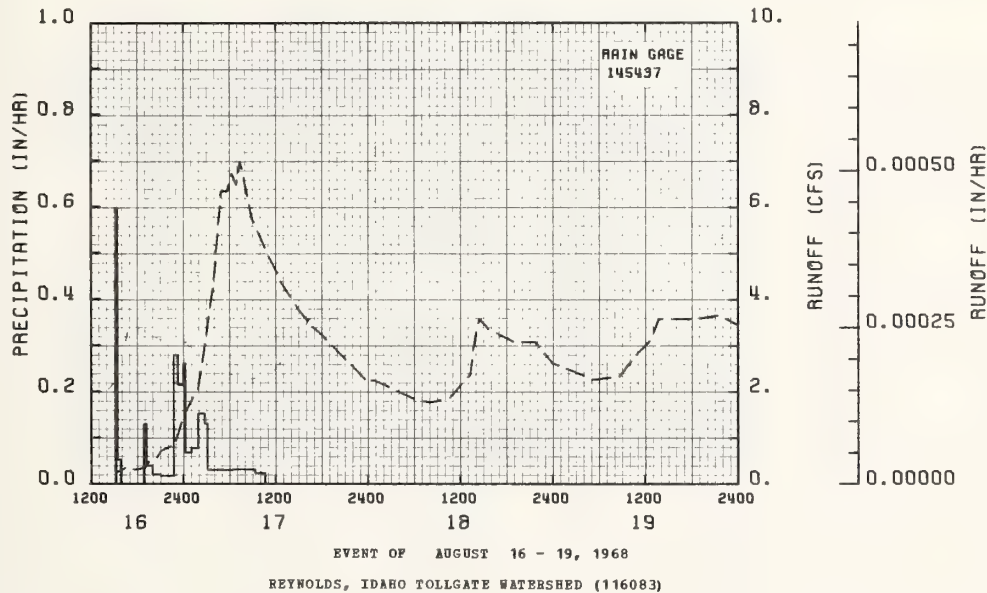
NOTES: To convert CFS to IN/DAY, multiply by 0.001769.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
ANTICIPATED CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 16 - 19, 1968										
RG 145437			RG 145437							
8-16	0.01	0.000	8-16	1516	0.0	0.0	8-16	1516	0.26	0.0
				1527	0.6000	0.11		1632	0.36	0.0
				1550	0.0522	0.13		1724	0.31	0.0
				1850	0.0	0.13		1856	0.36	0.0
				1913	0.1304	0.18		1926	0.48	0.0
WATERSHED CONDITIONS:				1959	0.0391	0.21		2030	0.58	0.0
Generally sagebrush range-				2100	0.0197	0.23		2106	0.73	0.0
land. Vegetation consists				2246	0.0170	0.26		2250	0.85	0.0001
predominately of big sage-				2318	0.2813	0.41		2400	1.47	0.0002
brush, little sagebrush,				2400	0.2143	0.56	8-17	156	2.08	0.0005
rabbitbrush, snowberry,										
blue bunch wheatgrass,										
Idaho fescue, and squirrel-			8-17	16	0.2625	0.63		312	3.49	0.0008
tail grass. 25% of area				101	0.0667	0.68		356	4.33	0.0010
has 0-25% cover, 15% of area				155	0.0778	0.75		456	6.34	0.0014
has 26-50% cover, 15% of				246	0.1529	0.88		544	6.34	0.0018
area has 51-75% cover and				309	0.1304	0.93		618	6.72	0.0021
45% of area has 76-100%										
cover.				627	0.0303	1.03		654	6.47	0.0024
				917	0.0318	1.12		724	6.98	0.0026
				1036	0.0228	1.15		854	5.75	0.0033
								1110	4.90	0.0042
								1248	4.33	0.0048
								1508	3.73	0.0055
								1638	3.42	0.0059
								1806	3.20	0.0063
								2026	2.79	0.0068
								2400	2.19	0.0075
							8-18	36	2.25	0.0076
								614	1.81	0.0084
								752	1.76	0.0086
								1038	1.87	0.0090
								1250	2.30	0.0093
								1318	2.36	0.0094
								1342	2.92	0.0095
								1426	3.57	0.0097
								1540	3.34	0.0100
								1858	3.06	0.0108

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.

1968			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 16 - 19, 1968 (CONTINUED)										
							8-18	2142	3.06	0.0114
								2400	2.60	0.0119
							8-19	510	2.25	0.0128
								702	2.30	0.0131
								828	2.30	0.0133
								1108	2.86	0.0138
								1244	3.13	0.0142
								1346	3.57	0.0145
								1804	3.57	0.0156
								2130	3.65	0.0165
								2400	3.42	0.0172

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	17.90																	
	O	0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137	1.760																	
STA AV	P	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	0.0																	
	O	0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144	3.598																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge								Maximum Volume for Selected Time Interval																					
		Date		Rate		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.		Date		Vol.											
1968		2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	2-21	0.067	2-21	0.092	2-21	0.152	2-18	0.432														
MAXIMUMS FOR PERIOD OF RECORD																															
		2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	1-28	0.076	1-28	0.126	1-28	0.236	1-27	0.606														
1968				1968		1968		1968		1967		1967		1967		1967															

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.11-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.0	0.13	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.18	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0	
4	0.0	0.00	0.0	0.23	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04	
5	0.04	0.0	0.22	0.41	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.01	0.0	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.09	0.0	
8	0.06	0.0	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.67	0.0	
9	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0	
10	0.23	0.0	0.0	0.0	0.09	0.0	0.0	0.19	0.0	0.0	0.03	0.08	
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.14	
12	0.0	0.09	0.0	0.0	0.52	0.0	0.0	0.08	0.0	0.08	0.39	0.0	
13	0.0	0.09	0.09	0.0	0.19	0.0	0.0	0.07	0.0	0.19	0.01	0.00	
14	0.0	0.0	0.27	0.0	0.05	0.0	0.06	0.75	0.0	0.19	0.0	0.05	
15	0.24	0.04	0.0	0.05	0.02	0.0	0.0	0.0	0.06	0.04	0.12	0.13	
16	0.12	0.0	0.00	0.02	0.05	0.0	0.0	0.39	0.0	0.01	0.17	0.07	
17	0.0	0.28	0.36	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.01	
18	0.0	0.42	0.0	0.14	0.0	0.0	0.0	0.20	0.01	0.0	0.23	0.20	
19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.27	0.0	0.0	0.04	0.01	
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.03	0.01	
21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.02	0.0	
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.11	0.11	
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.61	
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.22	0.36	
25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.02	0.12	
26	0.0	0.0	0.0	0.05	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
27	0.03	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00	
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01	
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.05	0.0	0.0	
30	0.20	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.18	
31	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
TOTAL	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	
STA AV	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 3 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
2	0.0	0.09	0.01	0.10	0.0	0.0	0.0	0.00	0.0	0.0	0.16	0.0
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0
4	0.0	0.00	0.0	0.21	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04
5	0.04	0.0	0.18	0.29	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0
8	0.03	0.0	0.0	0.0	0.0	0.21	0.01	0.0	0.0	0.0	0.60	0.0
9	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0
10	0.08	0.0	0.0	0.0	0.07	0.0	0.0	0.19	0.0	0.0	0.03	0.04
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.08	0.06
12	0.0	0.06	0.0	0.0	0.49	0.0	0.0	0.08	0.0	0.07	0.32	0.0
13	0.0	0.07	0.04	0.0	0.18	0.0	0.0	0.07	0.0	0.16	0.01	0.00
14	0.0	0.0	0.11	0.0	0.05	0.0	0.04	0.74	0.0	0.17	0.0	0.02
15	0.11	0.03	0.0	0.01	0.02	0.0	0.0	0.0	0.06	0.04	0.05	0.06
16	0.05	0.0	0.00	0.01	0.05	0.0	0.0	0.38	0.0	0.01	0.07	0.04
17	0.0	0.27	0.12	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.00
18	0.0	0.42	0.0	0.02	0.0	0.0	0.0	0.16	0.01	0.0	0.11	0.13
19	0.0	0.30	0.0	0.01	0.06	0.0	0.0	0.26	0.0	0.0	0.01	0.01
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.01	0.01
21	0.0	0.72	0.0	0.01	0.27	0.0	0.0	0.0	0.21	0.0	0.01	0.0
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.06	0.08
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.47
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.10	0.28
25	0.0	0.0	0.10	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.07
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04
27	0.01	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0
30	0.07	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.13
31	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
TOTAL	0.56	2.60	0.56	0.77	1.65	0.31	0.12	3.07	0.30	0.90	2.08	1.61
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.02	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
2	0.0	0.11	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.17	0.0
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0
4	0.0	0.00	0.0	0.22	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04
5	0.04	0.0	0.20	0.35	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0
8	0.04	0.0	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.64	0.0
9	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0
10	0.14	0.0	0.0	0.0	0.08	0.0	0.0	0.19	0.0	0.0	0.03	0.06
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.10
12	0.0	0.08	0.0	0.0	0.50	0.0	0.0	0.08	0.0	0.07	0.36	0.0
13	0.0	0.08	0.06	0.0	0.19	0.0	0.0	0.07	0.0	0.17	0.01	0.00
14	0.0	0.0	0.18	0.0	0.05	0.0	0.04	0.75	0.0	0.18	0.0	0.04
15	0.17	0.03	0.0	0.02	0.02	0.0	0.0	0.0	0.06	0.04	0.08	0.09
16	0.08	0.0	0.00	0.02	0.05	0.0	0.0	0.38	0.0	0.01	0.12	0.05
17	0.0	0.27	0.22	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.00
18	0.0	0.42	0.0	0.06	0.0	0.0	0.0	0.19	0.01	0.0	0.16	0.16
19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.26	0.0	0.0	0.03	0.01
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.02	0.01
21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.01	0.0
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.08	0.10
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.55
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.15	0.32
25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.10
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05
27	0.02	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0
30	0.13	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.16
31	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
TOTAL	0.82	2.68	0.80	0.92	1.70	0.33	0.12	3.10	0.30	0.94	2.41	1.94
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

REYNOLDS, IDAHO MOREBY CREEK WATERSHED (043004)												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.199	0.051	0.312	0.105	0.066	0.025	0.0	0.0	0.0	0.0	0.001	0.039
2	0.137	0.062	0.299	0.105	0.059	0.023	0.0	0.0	0.0	0.0	0.002	0.037
3	0.044	0.070	0.287	0.105	0.059	0.025	0.0	0.0	0.0	0.0	0.004	0.037
4	0.034	0.070	0.274	0.122	0.066	0.028	0.0	0.0	0.0	0.0	0.006	0.039
5	0.034	0.059	0.253	0.133	0.066	0.030	0.0	0.0	0.0	0.0	0.007	0.039
6	0.032	0.053	0.223	0.121	0.062	0.030	0.0	0.0	0.0	0.0	0.011	0.039
7	0.032	0.050	0.214	0.116	0.059	0.032	0.0	0.0	0.0	0.0	0.022	0.037
8	0.037	0.050	0.205	0.116	0.056	0.034	0.0	0.0	0.0	0.0	0.034	0.034
9	0.042	0.050	0.189	0.116	0.056	0.032	0.0	0.0	0.0	0.0	0.037	0.034
10	0.044	0.047	0.174	0.116	0.071	0.025	0.0	0.0	0.0	0.0	0.034	0.037
11	0.042	0.044	0.166	0.121	0.086	0.021	0.0	0.0	0.0	0.0	0.042	0.039
12	0.039	0.044	0.159	0.121	0.078	0.019	0.0	0.0	0.0	0.0	0.047	0.037
13	0.039	0.044	0.152	0.116	0.066	0.017	0.0	0.0	0.0	0.0	0.042	0.034
14	0.048	0.044	0.152	0.116	0.059	0.017	0.0	0.0	0.0	0.0	0.039	0.037
15	0.053	0.044	0.146	0.116	0.053	0.016	0.0	0.0	0.0	0.0	0.037	0.039
16	0.050	0.037	0.146	0.116	0.050	0.009	0.0	0.0	0.0	0.0	0.034	0.039
17	0.047	0.103	0.146	0.116	0.050	0.004	0.0	0.0	0.0	0.0	0.037	0.039
18	0.044	0.524	0.139	0.110	0.050	0.002	0.0	0.0	0.0	0.0	0.048	0.039
19	0.044	0.329	0.133	0.105	0.060	0.002	0.0	0.0	0.0	0.0 T	0.056	0.039
20	0.044	0.813	0.121	0.105	0.063	0.002	0.0	0.0	0.0	0.001	0.053	0.037
21	0.050	1.129	0.116	0.105	0.053	0.001	0.0	0.0	0.0	0.001	0.047	0.034
22	0.059	0.518	0.116	0.100	0.050	0.0 T	0.0	0.0	0.0	0.001	0.042	0.034
23	0.059	0.986	0.110	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.042	0.050
24	0.056	0.577	0.110	0.095	0.044	0.0	0.0	0.0	0.0	0.001	0.042	0.292
25	0.053	0.522	0.116	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.159
26	0.047	0.454	0.110	0.090	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.091
27	0.044	0.388	0.105	0.086	0.044	0.0	0.0	0.0	0.0	0.001	0.039	0.077
28	0.042	0.355	0.105	0.082	0.042	0.0	0.0	0.0	0.0	0.001	0.039	0.073
29	0.039	0.340	0.105	0.073	0.037	0.0	0.0	0.0	0.0	0.001	0.039	0.066
30	0.039		0.105	0.070	0.034	0.0	0.0	0.0	0.0	0.001	0.039	0.062
31	0.039		0.105		0.032		0.0	0.0		0.001		0.062
MEAN	0.0521	0.2710	0.1644	0.1063	0.0553	0.0132	0.0	0.0	0.0	0.0002	0.0334	0.0566
INCHES	0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137
STA AV	0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144

NOTES: To convert CFS to IN/DAY, multiply by 0.077784.

REYNOLDS, IDAHO SUMMIT WATERSHED (048077)

LOCATION: Owyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SUMMIT WATERSHED (048077)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04	8.82															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.093															
STA AV	P	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04	0.0															
	O	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.042	0.0	0.0	0.0	0.0	0.043															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		8-14	0.125	8-14	0.033	8-14	0.033	8-17	0.038	8-16	0.038	8-13	0.043	8-12	0.043	8- 9	0.083												
MAXIMUMS FOR PERIOD OF RECORD																													
		8-14	0.125	8-14	0.033	8-14	0.033	8-17	0.038	8-16	0.038	8-13	0.043	8-12	0.043	8- 9	0.083												
		1968		1968		1968		1968		1968		1968		1968		1968													

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Precipitation: 'Computed Actual' amounts from 1 rain gage. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	
	2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0	
	4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.36	0.0	
	9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.04	0.0	
	10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03	
	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03	
	12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0	
	13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0	
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0	
	15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
	16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0	
	17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
	18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0	
	19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.26	0.0	0.0	0.03	0.0	
	20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0	
	21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.19	
	23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
	25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
	26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.05		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	
	31	0.01		0.0		0.0		0.0	0.0		0.0		0.0	
TOTAL		0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04	
STA AV		0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049X61. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SUMMIT WATERSHED (048077)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.29	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.09
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.08
31	0.01		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.37	0.58	0.13	0.19	0.83	0.38	0.03	3.71	0.0	0.38	1.01	0.85
STA AV												

NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

1968	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SUMMIT WATERSHED (048077)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.32	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.13
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08
31	0.01		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.37	0.58	0.13	0.19	0.85	0.38	0.03	3.75	0.0	0.38	1.05	0.93
STA AV												

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.377	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.334	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0231	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.042	0.0	0.0	0.0	0.0

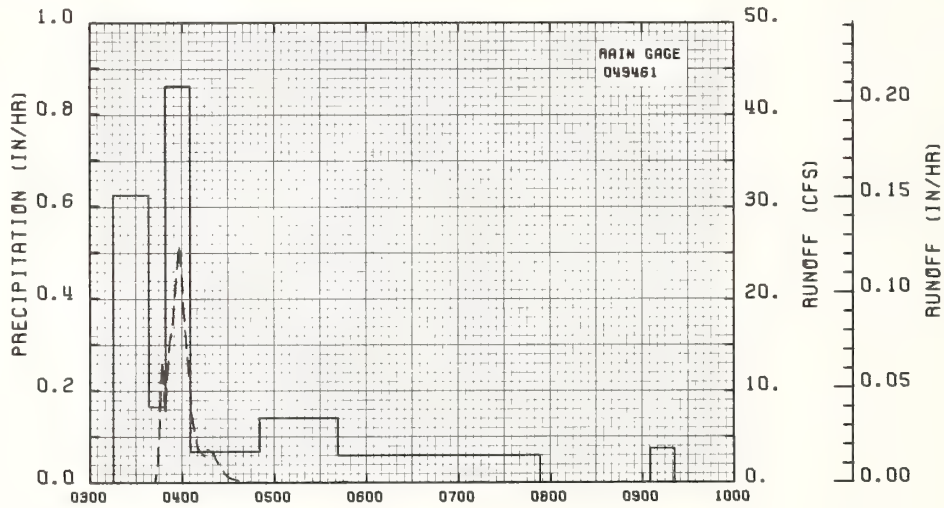
NOTES: To convert CFS to IN/DAY, multiply by 0.077784.

1968 SELECTED RUNOFF EVENT REYNOLDS, IDAHO SUMMIT WATERSHED (048077)										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1968										
RG 049461			RG 049461							
8-14	0.0	0.0	8-14	315	0.0	0.0	8-14	341	0.0	0.0
				338	0.6261	0.24		342	0.07	0.0
				349	0.1636	0.27		343	1.06	0.0
				405	0.8625	0.50		344	2.16	0.0001
				450	0.0667	0.55		345	5.29	0.0005
WATERSHED CONDITIONS:				541	0.1412	0.67		346	10.84	0.0011
Sagebrush rangeland with al-				753	0.0591	0.80		347	13.31	0.0020
most exclusive cattle grazing				905	0.0	0.80		348	10.00	0.0029
in early spring and late				921	0.0750	0.82		349	7.51	0.0037
fall. Numerous barren								350	11.42	0.0044
ridges. Vegetation consists										
largely of big sagebrush,								351	13.31	0.0053
cheatgrass, Sandberg blue-								352	15.38	0.0064
grass, bluebunch wheatgrass,								354	17.67	0.0092
and squirreltail grass.								356	21.96	0.0122
25% of the area has a vege-								358	25.86	0.0163
tative cover of 0-25% and										
75% of the area has a vege-								400	21.96	0.0204
tative cover of 25-50%.								401	18.48	0.0219
								402	16.12	0.0232
								404	12.34	0.0256
								406	7.51	0.0271
								408	5.48	0.0282
								410	3.70	0.0289
								414	2.92	0.0300
								415	3.70	0.0303
								420	3.17	0.0317
								422	2.47	0.0321
								424	1.88	0.0325
								426	1.39	0.0327
								428	0.83	0.0329
								430	0.56	0.0330
								432	0.38	0.0331
								436	0.18	0.0332
								440	0.09	0.0332
								444	0.05	0.0332
								448	0.02	0.0332

NOTES: To convert CFS to IN/HR, multiply by 0.004838.

1968	SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1968 (CONTINUED)										
							8-14	452	0.01	0.0332
								456	0.0	0.0332
								511	0.0	0.0332
								512	0.01	0.0332
								516	0.04	0.0332
								518	0.07	0.0332
								529	0.06	0.0333
								536	0.06	0.0333
								540	0.09	0.0333
								544	0.06	0.0333
								548	0.04	0.0333
								552	0.02	0.0333
								556	0.01	0.0333
								600	0.0	0.0333
								622	0.0	0.0333
								629	0.01	0.0333
								632	0.0	0.0333
								700	0.0	0.0333
								702	0.01	0.0333
								704	0.04	0.0333
								706	0.05	0.0333
								712	0.05	0.0333
								716	0.04	0.0333
								718	0.02	0.0333
								722	0.01	0.0333
								724	0.0	0.0333
								728	0.0	0.0333
								940	0.0	0.0333

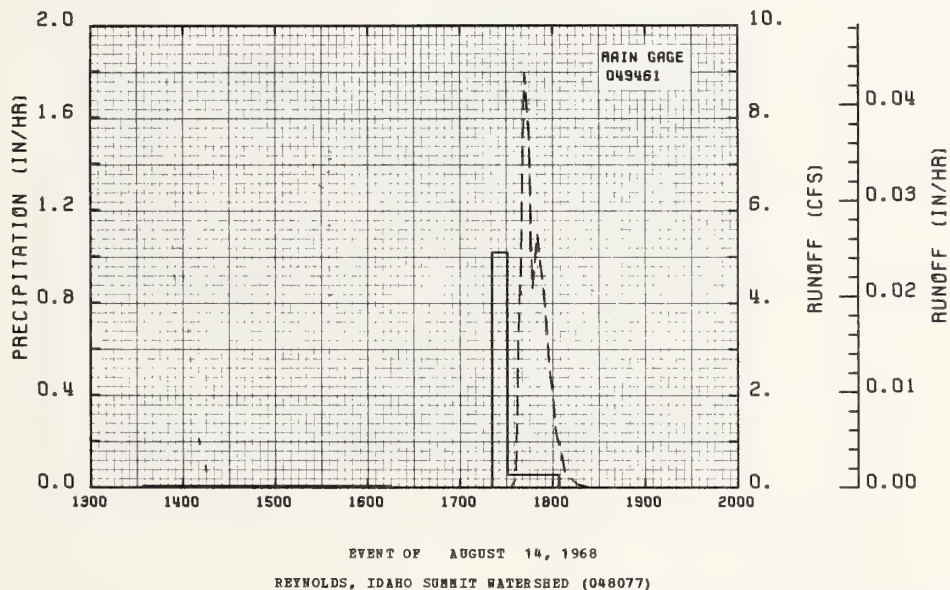
NOTES: To convert CFS to IN/HR, multiply by 0.004838.



EVENT OF AUGUST 14, 1968
REYNOLDS, IDAHO SUMMIT WATERSHED (048077)

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1968										
RG 049461			RG 049461							
8-14	0.82	0.034	8-14	1334	0.0	0.0	8-14	1733	0.0	0.0
				1444	0.0086	0.01		1736	0.20	0.0
				1615	0.0066	0.02		1737	1.32	0.0001
				1721	0.0	0.02		1738	3.30	0.0003
				1731	1.0200	0.19		1740	5.48	0.0010
WATERSHED CONDITIONS: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.				1804	0.0545	0.22		1741	7.51	0.0015
								1742	8.94	0.0023
								1745	7.51	0.0043
								1746	5.29	0.0048
								1747	4.29	0.0052
								1750	5.48	0.0064
								1754	4.29	0.0080
								1756	3.56	0.0086
								1758	2.58	0.0091
								1800	2.06	0.0095
								1802	1.18	0.0097
								1806	0.68	0.0100
								1808	0.32	0.0101
								1812	0.18	0.0102
								1816	0.06	0.0102
								1820	0.02	0.0102
								1824	0.0	0.0102

NOTES: To convert CFS to IN/HR, multiply by 0.004838.

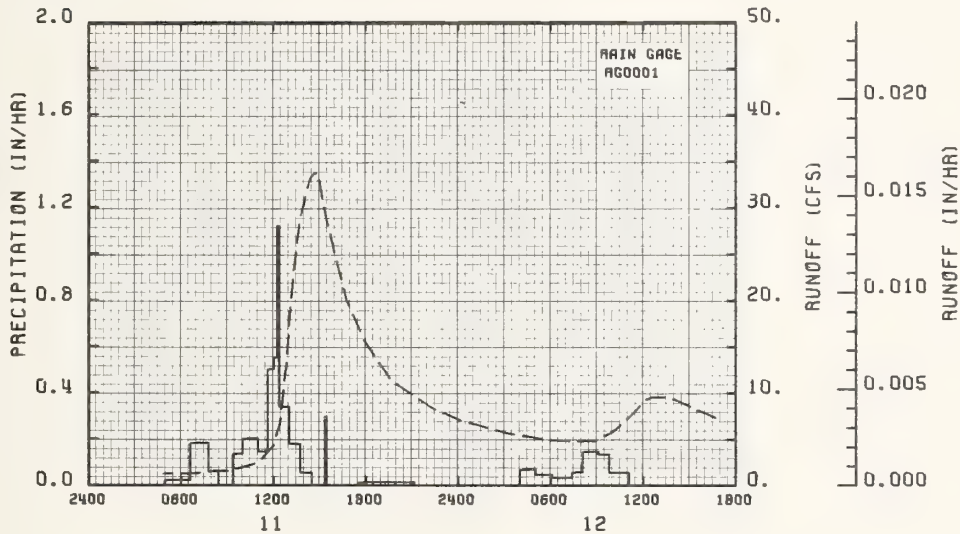


1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
Acc. (inches)									
EVENT OF AUGUST 16 - 17, 1968									
RG 049461			RG 049461						
8-16	0.0		8-16	1904	0.0	0.0	8-17	16	0.0
8-17		0.0		1940	0.2833	0.17		18	0.01
				2124	0.0058	0.18		20	0.06
				2314	0.0164	0.21		22	0.09
				2400	0.1435	0.32		26	0.13
WATERSHED CONDITIONS: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg blue grass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.			8-17	40	0.1200	0.40	38	0.15	0.0001
				122	0.2571	0.58	40	0.22	0.0001
				220	0.1759	0.75	46	0.27	0.0002
				306	0.1696	0.88	56	0.32	0.0004
				422	0.0711	0.97	100	0.45	0.0005
				506	0.0545	1.01	102	0.68	0.0006
				606	0.1000	1.11	104	1.00	0.0007
				740	0.0574	1.20	106	1.62	0.0009
				1006	0.0123	1.23	108	1.97	0.0012
				1231	0.0248	1.29	112	2.69	0.0019
							116	3.43	0.0029
							118	3.85	0.0034
							124	3.56	0.0052
							132	3.85	0.0076
							142	3.70	0.0107
							144	3.17	0.0112
							148	2.69	0.0121
							156	2.26	0.0137
							202	2.06	0.0148
							208	2.06	0.0158
							212	2.26	0.0165
							214	2.47	0.0169
							216	3.04	0.0174
							220	3.43	0.0184
							224	3.85	0.0196
							233	4.29	0.0225
							235	3.99	0.0232
							236	3.30	0.0235
							240	2.92	0.0245
							244	2.69	0.0254
							246	2.36	0.0258
							248	2.58	0.0262
							251	2.26	0.0268
							258	2.69	0.0282
							259	2.36	0.0284
							302	2.69	0.0290
							306	2.36	0.0298
							312	2.47	0.0310
							316	2.26	0.0318
							318	2.36	0.0321
							322	2.26	0.0328
							324	2.06	0.0332
							326	1.79	0.0335
							328	1.54	0.0338
							332	1.62	0.0343
							336	1.39	0.0348
							340	1.12	0.0352
							344	0.88	0.0355
							348	0.68	0.0358
							350	0.52	0.0359
							352	0.41	0.0360
							400	0.29	0.0362
							404	0.20	0.0363
							408	0.15	0.0364
							410	0.18	0.0364
							412	0.13	0.0364
							416	0.09	0.0364
							419	0.13	0.0364
							422	0.09	0.0364
							426	0.10	0.0364
							429	0.08	0.0364
							439	0.09	0.0365
							448	0.10	0.0366
							452	0.08	0.0366
							456	0.06	0.0366
							500	0.04	0.0366
							504	0.03	0.0366
							520	0.02	0.0366
							532	0.02	0.0366
							544	0.09	0.0367

NOTES: To convert CFS to IN/HR, multiply by 0.004838.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-3								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 11 - 13, 1968 (CONTINUED)											
							9-13	2113	2.70	0.2064	
								2400	2.70	0.2100	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004797. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.001. For antecedent runoff, see table of daily runoff amounts.



EVENT OF SEPTEMBER 11 - 13, 1968
NORTH DANVILLE, VERMONT WATERSHED W-3

NORTH DANVILLE, VERMONT WATERSHED W-4

LOCATION: Caledonia County, Vermont; 4.7 mi. NW of St. Johnsbury; Morrill Brook, Sleepers River, Connecticut River Basin.

AREA: 10752.00 acres 16.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-4													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64													
	Q	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137	19.379													
STA AV	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13													
	Q	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157	18.526													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		3-24	0.037	3-24	0.037	3-24	0.073	3-23	0.213	3-23	0.401	3-23	0.649	3-22	1.129	3-22	2.405										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-18	0.040	4-18	0.040	3-24	0.073	3-23	0.213	3-23	0.401	10-6	0.660	3-22	1.129	4-12	2.750										
		1960		1960		1968		1968		1968		1962		1968		1960											

NOTES: Forest, 74%; cultivated, 12%; pasture, 12%; and idle, 2%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Mis. Pub. 1262, p. 67.4-19. Precipitation records began 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968 DAILY PRECIPITATION (inches)													NORTH DANVILLE, VERMONT WATERSHED W-4												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0												
	2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11												
	3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04												
	4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05												
	5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35												
	6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18												
	7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.0	0.01												
	8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01												
	9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01												
	10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0												
	11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0												
	12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0												
	13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0												
	14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29												
	15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48												
	16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05												
	17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01												
	18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0												
	19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14												
	20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45												
	21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0												
	22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05												
	23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52												
	24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03												
	25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02												
	26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0												
	27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0												
	28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05												
	29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04												
	30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0												
	31	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL		1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89												
STA AV		1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77												

NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr period.

1968 MEAN DAILY DISCHARGE (cfs)													NORTH DANVILLE, VERMONT WATERSHED W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	16.90	11.07	8.61	144.30	43.05	29.46	35.31	4.54	2.74	3.86	8.06	17.71													
2	16.90	12.36	8.59	95.35	37.54	24.03	20.11	4.86	2.49	3.52	8.76	20.41													
3	16.72	25.28	8.44	87.17	34.28	24.61	14.75	4.27	2.48	3.44	8.51	19.81													
4	16.90	30.07	8.44	96.28	39.76	20.85	12.78	3.44	2.48	6.72	7.55	20.07													
5	16.41	18.55	8.44	144.21	33.71	18.30	11.62	3.15	2.29	15.24	7.04	47.64													
6	15.79	15.88	8.28	90.35	30.03	16.56	17.45	2.88	3.06	9.71	6.90	26.80													
7	15.63	14.53	8.03	79.75	27.79	15.11	15.41	3.86	6.98	13.77	7.01	19.82													
8	13.98	13.40	7.78	80.71	27.25	14.32	12.49	3.52	4.35	16.71	14.03	16.60													
9	14.10	12.67	7.94	86.99	26.78	31.27	10.38	3.27	3.23	10.02	13.33	14.40													
10	13.71	12.44	9.20	78.80	34.38	69.33	48.04	7.27	2.60	7.80	12.22	13.03													
11	13.25	11.49	9.01	68.33	27.38	31.26	26.22	4.23	37.03	7.73	12.80	10.88													
12	12.90	10.98	8.98	65.21	26.61	29.72	16.19	3.09	31.54	7.69	10.64	12.63													
13	12.69	10.75	9.14	68.78	25.49	28.85	12.46	2.66	16.02	6.89	10.43	14.06													
14	12.56	10.38	8.57	67.40	22.08	22.74	10.90	2.52	9.78	6.10	9.90	16.28													
15	12.56	10.38	8.44	71.66	20.51	22.78	9.83	2.22	7.06	5.71	9.14	17.84													
16	12.56	10.13	9.31	74.55	19.09	32.29	8.58	1.94	5.90	5.45	10.07	16.97													
17	11.14	10.17	26.11	52.39	65.74	23.94	7.99	3.37	5.10	5.28	8.94	16.10													
18	11.72	9.56	61.68	46.19	44.67	23.45	9.30	6.55	4.66	5.08	11.95	14.39													
19	11.64	9.36	86.55	42.46	72.57	22.46	9.37	3.75	4.03	5.67	65.85	13.71													
20	11.92	9.52	89.21	39.21	100.71	31.53	9.05	13.76	3.59	16.91	28.40	13.75													
21	12.04	9.02	84.50	37.06	63.59	21.85	6.68	22.07	3.28	9.70	18.29	13.75													
22	11.72	8.51	220.23	35.38	48.44	24.36	5.75	8.52	3.16	7.34	16.09	13.58													
23	11.60	8.44	207.98	32.57	41.14	22.91	4.96	5.69	2.81	6.54	14.55	14.63													
24	11.60	8.22	214.42	62.34	33.03	23.62	4.88	4.65	2.71	6.36	14.57	14.65													
25	11.29	8.19	79.20	185.35	29.56	33.38	5.74	9.31	6.30	7.53	23.15	13.11													
26	11.17	7.99	73.89	68.60	26.49	23.16	4.84	6.52	7.89	10.85	15.64	13.58													
27	10.98	7.81	89.18	72.88	24.75	20.35	4.07	4.52	5.21	7.91	15.11	13.58													
28	10.98	7.93	93.16	60.80	22.63	20.95	7.89	4.04	4.40	15.25	13.69	13.58													
29	10.98	8.31	110.16	47.77	21.76	29.75	9.16	3.60	4.07	18.21	74.95	13.58													
30	11.12		117.67	44.24	26.21	46.53	5.98	3.19	3.84	11.62	32.79	13.49													
31	11.08		107.69		41.54		4.72	2.97		9.31		13.23													
MEAN	13.049	11.840	58.025	74.235	36.726	26.656	12.352	5.167	6.702	8.837	17.011	16.569													
INCHES	0.895	0.760	3.982	4.930	2.520	1.770	0.848	0.355	0.445	0.606	1.130	1.137													
STA AV	0.855	0.733	1.740	5.286	3.231	1.343	0.699	0.555	0.503	1.081	1.343	1.157													

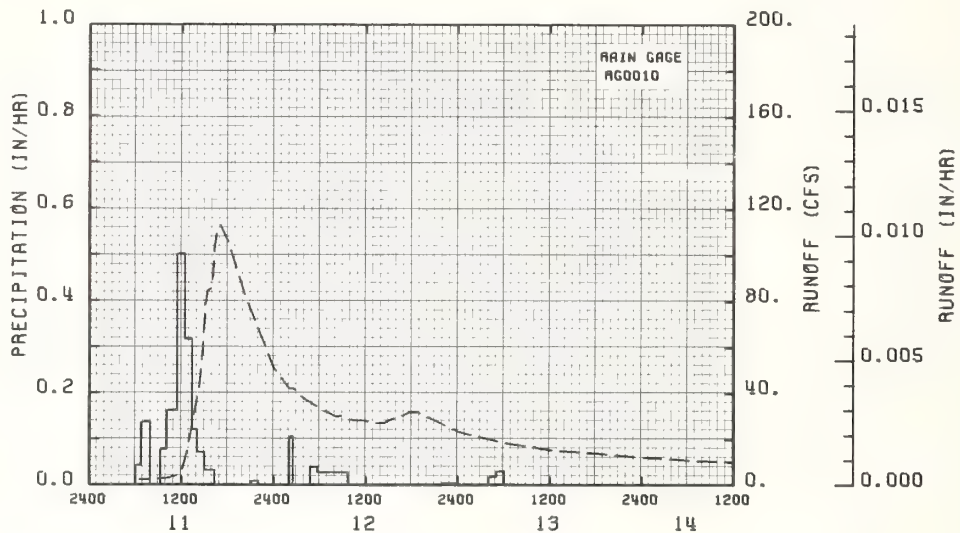
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002213695. STA AV based on 9 yr period.

1968			SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-4					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 11 - 14, 1968											
9-11	RG 10 0.0	0.002	9-11	RG 10 558	0.0	0.0	9-11	633	2.52	0.0	
				639	0.0439	0.03		720	2.65	0.0002	
				753	0.1378	0.20		846	2.92	0.0006	
				910	0.0	0.20		1018	3.35	0.0010	
				1003	0.0792	0.27		1117	4.33	0.0013	
WATERSHED CONDITIONS: 74% forest land; 12% pastured land; 12% cultivated; 2% idle land with dense grass and brush growth.				1120	0.1636	0.48		1200	6.51	0.0017	
				1222	0.5032	1.00		1239	14.64	0.0023	
				1319	0.3158	1.30		1315	25.37	0.0034	
				1359	0.1200	1.38		1351	35.96	0.0051	
				1458	0.0712	1.45		1416	43.80	0.0066	
				1614	0.0316	1.49		1446	62.34	0.0090	
				2059	0.0	1.49		1504	77.87	0.0109	
				2159	0.0100	1.50		1517	84.87	0.0125	
			9-12	200	0.0	1.50		1548	85.90	0.0166	
				228	0.1071	1.55		1603	92.23	0.0187	
			440	0.0	1.55		1616	104.54	0.0207		
			538	0.0414	1.59		1629	109.25	0.0228		
			937	0.0276	1.70		1657	112.86	0.0276		
			2200	0.0	1.70		1757	105.71	0.0377		
			2400	0.0050	1.71		2013	81.83	0.0573		
9-13			357	0.0	1.71		2400	50.30	0.0804		
			500	0.0190	1.73	9-12	157	41.76	0.0887		
			559	0.0305	1.76		224	41.76	0.0904		
							358	37.20	0.0961		
							559	32.96	0.1026		
							758	29.56	0.1083		
							830	30.11	0.1098		
							928	28.48	0.1124		
							1018	27.95	0.1146		
							1129	27.95	0.1177		
							1244	26.90	0.1209		
							1413	26.90	0.1246		
							1458	28.48	0.1265		
							1630	30.11	0.1306		
							1731	31.80	0.1335		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)										
							9-12	1828	31.80	0.1363
								2014	29.02	0.1413
								2400	22.94	0.1503
			9-13					559	18.10	0.1616
								1200	15.00	0.1708
								1759	13.58	0.1787
								2400	11.92	0.1858
			9-14					600	10.68	0.1921
								1200	9.80	0.1978
								1800	8.71	0.2029
								2400	7.93	0.2075

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



EVENT OF SEPTEMBER 11 - 14, 1968
NORTH DANVILLE, VERMONT WATERSHED W-4

NORTH DANVILLE, VERMONT WATERSHED W-5

LOCATION: Caledonia County, Vermont; 2 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.

AREA: 27469.00 acres 42.92 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-5											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	37.64											
	O	0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122	18.289											
STA AV	P	1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	35.13											
	O	1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338	19.707											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date																
1968		4-25 0.030	4-25 0.030	4-25 0.060	3-23 0.167	4-24 0.317	3-23 0.512	3-22 0.867	3-17 2.349																
MAXIMUMS FOR PERIOD OF RECORD																									
		4-18 0.037	4-18 0.036	4-18 0.072	3-25 0.198	10- 7 0.383	10- 6 0.698	4-16 1.117	4-12 3.140																
		1960	1960	1960	1966	1962	1962	1964	1960																

NOTES: Watershed conditions: Forest predominantly hardwoods, 67%; cultivated land consisting of mostly clover, orchard grass, and timothy hay with very little in row crops, 17%; pasture of mostly bluegrass, 13%; idle land in tall grasses and woody plants, 2%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 67.5-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see U.S. Weather Bureau records at St. Johnsbury, Vt.

1968		DAILY PRECIPITATION (inches)					NORTH DANVILLE, VERMONT WATERSHED W-5							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.19	0.21	0.0	0.0	0.0	0.09	0.0	0.0	0.02	0.0	
	2	0.0	0.15	0.0	0.0	0.0	0.09	0.0	0.04	0.06	0.0	0.04	0.11	
	3	0.01	0.26	0.0	0.0	0.04	0.0	0.0	0.0	0.04	0.34	0.0	0.04	
	4	0.08	0.01	0.0	0.15	0.21	0.0	0.0	0.0	0.0	0.29	0.0	1.05	
	5	0.04	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.35	
	6	0.01	0.04	0.0	0.0	0.0	0.0	0.37	0.01	0.40	0.0	0.0	0.18	
	7	0.25	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.0	0.52	0.18	0.01	
	8	0.0	0.0	0.0	0.02	0.0	0.02	0.0	0.02	0.0	0.01	0.48	0.01	
	9	0.0	0.0	0.0	0.06	0.20	0.97	0.33	0.30	0.0	0.0	0.01	0.01	
	10	0.0	0.11	0.0	0.04	0.0	0.27	0.57	0.02	0.0	0.0	0.23	0.0	
	11	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.14	0.01	0.0	
	12	0.0	0.0	0.36	0.0	0.09	0.11	0.0	0.0	0.21	0.0	0.13	0.0	
	13	0.0	0.02	0.34	0.0	0.0	0.08	0.0	0.0	0.05	0.0	0.20	0.0	
	14	0.02	0.02	0.0	0.0	0.0	0.0	0.14	0.02	0.0	0.0	0.01	0.29	
	15	0.11	0.14	0.0	0.49	0.0	0.40	0.0	0.0	0.43	0.0	0.38	0.48	
	16	0.0	0.0	0.05	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.03	0.05	
	17	0.0	0.06	0.79	0.0	1.01	0.05	0.05	0.54	0.03	0.0	0.05	0.01	
	18	0.0	0.02	0.08	0.0	0.44	0.15	0.0	0.0	0.02	0.0	1.03	0.0	
	19	0.02	0.02	0.04	0.0	0.07	0.35	0.29	0.0	0.0	0.57	0.08	0.14	
	20	0.0	0.02	0.0	0.0	0.84	0.04	0.0	1.05	0.0	0.01	0.14	0.45	
	21	0.09	0.0	0.11	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.05	0.0	
	22	0.0	0.06	0.56	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.26	0.05	
	23	0.15	0.0	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.52	
	24	0.0	0.0	0.09	1.21	0.0	0.36	0.05	0.05	0.0	0.0	0.05	0.03	
	25	0.0	0.0	0.0	0.50	0.0	0.01	0.01	0.40	0.0	0.22	0.03	0.02	
	26	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.02	0.04	0.0	
	27	0.0	0.0	0.0	0.32	0.0	0.01	0.02	0.0	0.0	0.0	0.16	0.0	
	28	0.11	0.0	0.0	0.02	0.0	0.23	0.29	0.0	0.0	0.53	0.65	1.05	
	29	0.13	0.10	0.0	0.0	0.20	0.69	0.0	0.0	0.0	0.03	0.43	0.04	
	30	0.26	0.0	0.0	0.0	0.25	0.34	0.0	0.0	0.0	0.01	0.0	0.0	
	31	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		1.28	1.11	3.51	3.19	4.24	4.36	2.15	2.70	2.74	2.78	4.69	4.89	
STA AV		1.92	2.10	2.38	2.88	3.03	3.24	3.20	3.82	2.61	3.65	3.53	2.77	

NOTES: For temperature data see table of maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gauge R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 10 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	41.89	26.13	24.73	428.33	84.78	66.48	104.95	9.96	6.82	7.51	18.23	44.78
2	41.89	29.92	24.83	237.17	76.71	47.62	48.75	11.43	6.17	6.78	20.53	48.47
3	41.74	79.17	19.15	212.21	70.75	49.60	32.68	10.38	6.14	6.70	19.22	46.17
4	38.97	100.56	21.54	241.85	84.32	41.44	26.68	8.24	6.19	11.39	16.46	45.65
5	37.28	67.17	21.20	370.02	72.58	34.87	23.21	7.32	5.38	30.66	14.56	123.39
6	35.50	45.91	20.71	206.15	62.55	29.64	36.20	6.71	6.38	19.05	14.60	69.46
7	34.96	40.33	20.11	176.20	54.71	26.34	30.84	8.62	14.66	29.69	15.03	53.32
8	33.64	36.36	19.95	180.70	51.88	25.09	23.89	7.94	9.36	38.09	32.51	44.10
9	33.77	33.71	20.79	201.59	51.09	61.06	18.40	7.39	6.55	21.74	32.48	34.05
10	31.22	31.77	23.43	178.45	68.75	180.92	93.21	13.25	5.21	16.93	29.80	31.43
11	28.63	30.02	24.36	149.63	52.88	68.97	52.76	8.86	96.67	16.80	30.52	29.14
12	28.07	27.60	24.64	139.54	51.40	61.82	31.34	6.30	76.81	16.71	25.53	33.84
13	27.38	26.24	24.85	148.49	51.18	77.33	23.48	5.23	35.39	14.50	25.36	38.47
14	27.15	25.36	23.36	143.92	42.38	57.62	19.78	4.66	21.02	12.77	23.93	45.14
15	27.84	25.36	21.93	162.23	38.03	47.29	17.38	3.82	14.39	11.88	21.79	53.19
16	28.07	24.82	25.13	180.88	35.15	72.58	15.42	3.72	11.91	11.32	24.25	46.50
17	27.38	24.97	109.61	114.25	156.95	52.10	25.27	6.28	10.56	10.81	20.55	39.56
18	25.91	24.00	265.42	98.29	107.58	49.23	25.98	15.97	9.79	10.49	27.65	35.63
19	25.69	23.93	334.37	89.80	186.25	49.48	30.65	8.47	8.85	10.90	181.16	34.16
20	26.36	23.64	328.28	81.79	270.27	84.31	37.59	20.41	7.84	36.63	74.52	34.03
21	27.50	21.95	272.89	76.16	156.32	50.84	25.94	49.94	7.11	19.90	48.21	34.03
22	27.27	21.20	448.55	73.17	105.70	44.03	24.60	19.18	6.59	14.19	39.54	34.03
23	27.15	21.10	439.56	67.30	85.74	44.31	22.52	12.89	6.19	13.08	35.28	36.70
24	27.05	19.85	438.85	147.01	69.10	53.89	21.23	10.97	5.67	13.02	35.59	37.81
25	26.58	19.66	186.87	522.08	58.23	86.94	24.93	26.27	9.64	15.43	59.76	35.09
26	25.70	19.66	171.54	159.42	50.84	54.41	14.63	17.32	12.96	23.73	41.68	34.83
27	25.36	19.66	224.28	176.11	46.10	46.87	8.88	11.75	9.42	16.65	35.76	32.37
28	25.36	20.23	246.12	145.48	42.23	48.64	18.08	10.64	8.08	37.33	31.62	29.98
29	25.36	21.10	302.12	106.15	40.16	68.89	18.72	9.41	7.28	53.69	227.04	29.98
30	26.47		325.59	92.46	52.99	123.39	11.95	8.24	7.18	30.24	88.34	29.98
31	26.59		281.22		82.50		10.06	7.36		23.33		29.98
MEAN	30.12	32.12	152.77	176.89	79.32	60.20	29.68	11.58	14.87	19.42	43.72	41.78
INCHES	0.809	0.807	4.104	4.598	2.131	1.565	0.797	0.311	0.387	0.522	1.136	1.122
STA AV	1.417	1.187	2.596	5.601	2.669	1.041	0.558	0.438	0.439	1.035	1.388	1.338

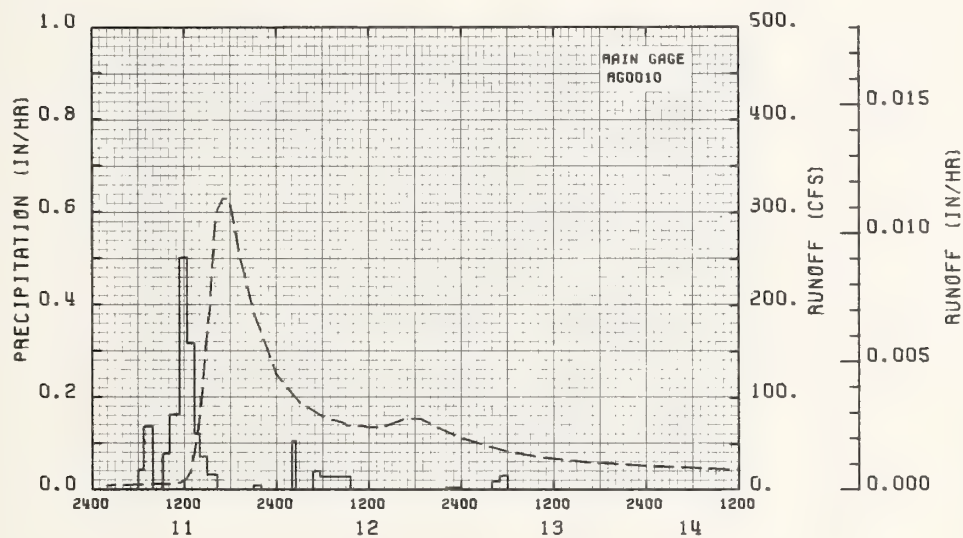
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0008665. STA AV based on 9 yr record period.

1968			SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 11 - 14, 1968												
9-11	RG 10		9-11	RG 10			9-11					
	0.0	0.000		558	0.0	0.0		143	4.96	0.0		
				639	0.0439	0.03		317	5.63	0.0003		
				753	0.1378	0.20		559	5.98	0.0009		
				910	0.0	0.20		735	6.35	0.0013		
				1003	0.0792	0.27		754	6.73	0.0014		
WATERSHED CONDITIONS:												
67% forest; 17% hay; 13%					1120	0.1636	0.48	849	6.73	0.0016		
pastured land; 2% idle land					1222	0.5032	1.00	930	6.35	0.0018		
with dense brush and grass					1319	0.3158	1.30	1014	6.73	0.0020		
growth; 1% homesites and					1359	0.1200	1.38	1130	8.40	0.0023		
roads.					1458	0.0712	1.45	1215	12.44	0.0026		
				1614	0.0316	1.49	1249	21.20	0.0029			
				2059	0.0	1.49	1320	40.70	0.0035			
				2159	0.0100	1.50	1400	78.66	0.0049			
			9-12	200	0.0	1.50	1422	107.85	0.0061			
				228	0.1071	1.55	1447	155.96	0.0081			
				440	0.0	1.55	1523	202.56	0.0120			
				538	0.0414	1.59	1536	235.56	0.0137			
				937	0.0276	1.70	1558	283.15	0.0171			
				2200	0.0	1.70	1621	302.90	0.0211			
				2400	0.0050	1.71	1700	315.14	0.0284			
			9-13	357	0.0	1.71	1741	315.14	0.0361			
				500	0.0190	1.73	1808	302.90	0.0412			
				559	0.0305	1.76	1912	253.23	0.0519			
							2057	193.25	0.0660			
							2400	123.46	0.0834			
							9-12	300	93.52	0.0952		
								558	78.66	0.1044		
								830	71.81	0.1113		
								914	68.53	0.1132		
								1057	68.53	0.1175		
								1145	66.92	0.1195		
								1313	66.92	0.1230		
								1348	68.53	0.1244		
								1530	73.49	0.1288		
								1630	76.91	0.1315		

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.

1968 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)
EVENT OF SEPTEMBER 11 - 14, 1968 (CONTINUED)								
				9-12			1830	76.91
							2029	68.53
							2230	60.73
							2400	54.91
				9-13			601	40.70
							1029	34.03
							1632	29.02
							2059	27.15
							2400	25.36
				9-14			558	23.64
							1200	21.20
							1759	18.20
							2400	16.80

NOTES: To convert CFS to IN/HR, multiply by 0.000036104. For antecedent rainfall, see table of daily amounts included with information for Watershed 67.002. For antecedent runoff, see table of daily runoff amounts.



EVENT OF SEPTEMBER 11 - 14, 1968
NORTH DANVILLE, VERMONT WATERSHED W-5

REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO WATERSHED W-1 (036068)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	15.78													
	O	0.045	0.261	0.096	0.044	0.037	0.024	0.012	0.018	0.006	0.005	0.015	0.034	0.596													
STA AV	P	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12	0.0													
	O	0.373	0.298	0.203	0.416	0.482	0.305	0.032	0.025	0.012	0.017	0.037	0.271	2.470													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		2-21	0.005	2-21	0.005	2-21	0.010	2-21	0.025	2-21	0.040	2-21	0.056	2-20	0.088	2-18	0.215										
MAXIMUMS FOR PERIOD OF RECORD																											
		12-23	0.065	12-23	0.064	12-23	0.125	12-23	0.270	12-23	0.327	12-23	0.453	12-23	0.721	12-28	1.313										
		1964		1964		1964		1964		1964		1964		1964		1965											

NOTES: Watershed conditions: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. Revised map of Watershed in this publication. Previous map published in Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Wisc. Pub. 1164, p. 68.1-8. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	36	27	43	34	55	28	53	39	78	30	74	43	82	50	88	56	86	49	76	42	51	24	32	26	
2	31	14	51	33	57	28	47	40	65	36	80	54	87	45	88	75	70	54	64	36	47	34	34	23	
3	32	12	49	38	60	27	51	30	65	31	71	59	90	50	84	58	69	42	73	30	33	29	46	30	
4	39	10	52	31	61	32	57	26	73	39	70	50	92	56	90	54	75	43	72	40	52	32	45	32	
5	36	15	36	28	53	34	45	32	74	36	70	47	95	47	93	62	78	46	63	34	46	31	48	26	
6	30	9	47	37	44	28	43	29	48	26	65	50	98	58	87	54	83	46	62	39	45	25	36	20	
7	32	10	46	28	43	28	46	30	52	23	66	50	97	63	96	52	78	56	51	34	46	11	41	24	
8	38	20	44	21	42	22	55	28	59	29	64	44	96	62	93	63	83	57	54	27	55	33	48	28	
9	45	23	42	29	45	25	65	29	69	34	72	50	94	84	90	64	87	50	56	22	55	29	52	28	
10	44	21	44	18	48	20	76	34	75	53	78	43	91	64	83	61	89	56	68	46	45	25	53	36	
11	30	12	49	20	55	30	65	30	70	40	86	47	97	57	85	60	87	63	72	42	52	36	42	28	
12	31	12	35	19	56	30	64	20	67	45	72	45	82	63	96	58	75	50	63	44	42	38	36	18	
13	35	18	34	18	45	32	44	15	59	44	71	59	81	52	76	58	86	46	48	38	38	31	32	15	
14	38	22	34	15	48	30	47	22	53	37	72	40	81	58	62	54	72	56	53	35	34	21	43	29	
15	52	32	35	26	52	30	68	40	57	32	80	45	78	50	67	46	61	48	51	39	37	28	42	30	
16	45	29	44	26	50	36	50	26	56	34	88	46	84	52	67	51	64	42	49	37	34	26	34	25	
17	37	18	47	30	38	31	40	27	65	33	93	55	79	54	63	46	76	40	52	26	41	22	31	22	
18	35	18	47	41	41	32	49	20	74	40	95	54	89	48	65	45	80	54	52	27	40	33	34	21	
19	43	20	53	42	46	27	56	33	77	48	95	60	97	52	66	49	56	40	58	22	43	29	26	13	
20	44	22	55	43	52	22	44	19	71	50	80	52	78	48	61	42	48	38	54	30	39	30	24	15	
21	43	22	47	41	58	22	42	25	74	48	88	54	90	50	61	41	48	39	51	25	43	35	24	10	
22	41	24	48	37	61	30	45	27	66	34	83	52	87	56	67	50	60	37	61	32	50	33	21	10	
23	44	31	56	43	61	39	55	22	63	38	76	56	89	51	75	52	68	36	62	32	49	28	34	20	
24	43	18	51	30	57	37	61	32	60	45	80	58	92	52	81	46	71	38	65	31	40	28	42	32	
25	35	22	53	27	58	33	58	32	67	47	89	50	93	55	82	50	74	38	68	35	43	22	39	29	
26	29	12	52	28	48	32	56	39	66	37	102	55	94	66	79	56	76	40	63	32	39	22	32	27	
27	27	14	52	28	62	26	52	28	68	40	90	60	99	58	78	53	75	43	64	28	42	28	31	26	
28	30	10	54	26	62	39	60	25	74	41	68	42	99	65	71	50	68	38	59	32	43	25	38	16	
29	40	22	57	26	69	34	71	36	82	46	65	44	98	68	77	46	70	39	61	37	42	20	23	14	
30	36	28			51	30	80	40	75	38	74	38	88	60	82	47	72	40	40	29	38	23	23	10	
31	35	16			52	39			69	37			86	54	86	49			48	32			21	8	
AV.	37	19	46	29	52	30	54	29	66	38	78	50	89	56	78	53	72	45	59	33	43	28	35	22	
MEAN	28.2		38.3		41.4		42.0		52.7		64.4		73.1		66.0		59.2		46.3		36.0		29.0		
STA AV	36	18	44	26	47	25	54	29	66	38	73	46	86	51	83	49	76	43	64	33	48	27	39	20	

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 6 yr (1963-68) record period.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.10	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.09
2	0.02	0.06	0.00	0.08	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.42	0.00
4	0.0	0.01	0.00	0.17	0.09	0.03	0.0	0.00	0.00	0.0	0.02	0.01
5	0.01	0.01	0.16	0.27	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.04	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.44	0.0
9	0.09	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.33	0.0
10	0.20	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.05
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.08
12	0.00	0.05	0.01	0.00	0.15	0.00	0.0	0.05	0.0	0.10	0.31	0.02
13	0.00	0.07	0.10	0.0	0.06	0.00	0.0	0.16	0.00	0.22	0.01	0.00
14	0.01	0.01	0.09	0.04	0.01	0.03	0.04	0.93	0.0	0.20	0.00	0.03
15	0.20	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.05	0.08	0.15
16	0.07	0.01	0.03	0.03	0.01	0.00	0.0	0.53	0.00	0.00	0.05	0.03
17	0.00	0.24	0.14	0.00	0.00	0.0	0.0	0.84	0.0	0.0	0.00	0.01
18	0.0	0.24	0.01	0.02	0.00	0.09	0.00	0.19	0.01	0.00	0.19	0.15
19	0.0	0.22	0.0	0.03	0.13	0.04	0.00	0.27	0.02	0.00	0.01	0.02
20	0.00	0.13	0.00	0.01	0.25	0.0	0.0	0.06	0.01	0.21	0.00	0.01
21	0.00	0.66	0.0	0.04	0.03	0.00	0.0	0.00	0.10	0.00	0.02	0.01
22	0.00	0.08	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.10	0.17
23	0.00	0.21	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.54
24	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.00	0.0	0.19	0.38
25	0.0	0.0	0.17	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.11
26	0.00	0.0	0.01	0.01	0.13	0.0	0.0	0.00	0.0	0.0	0.00	0.04
27	0.01	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.05
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.05
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.02	0.01
30	0.15	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.10	0.10
31	0.03	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.0
TOTAL	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12
STA AV	0.96	2.05	0.76	0.81	1.13	0.48	0.11	3.78	0.21	0.85	2.53	2.12

NOTES: Values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08	0.01	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07
2	0.01	0.05	0.00	0.06	0.0	0.00	0.00	0.01	0.0	0.0	0.06	0.00
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.38	0.00
4	0.0	0.01	0.00	0.12	0.07	0.03	0.0	0.00	0.00	0.0	0.01	0.01
5	0.01	0.01	0.11	0.20	0.04	0.01	0.0	0.0	0.00	0.0	0.00	0.00
6	0.00	0.00	0.02	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.00	0.00	0.00	0.14	0.00	0.0	0.0	0.0	0.39	0.0
9	0.06	0.00	0.00	0.0	0.00	0.00	0.05	0.53	0.0	0.0	0.26	0.0
10	0.14	0.0	0.0	0.0	0.01	0.00	0.0	0.16	0.00	0.0	0.02	0.04
11	0.00	0.0	0.0	0.00	0.06	0.00	0.0	0.01	0.00	0.02	0.04	0.06
12	0.00	0.05	0.00	0.00	0.12	0.00	0.0	0.04	0.0	0.09	0.24	0.01
13	0.00	0.06	0.05	0.0	0.05	0.00	0.0	0.13	0.00	0.20	0.01	0.00
14	0.01	0.01	0.04	0.01	0.01	0.01	0.03	0.84	0.0	0.18	0.00	0.02
15	0.16	0.04	0.00	0.02	0.03	0.0	0.0	0.00	0.04	0.04	0.05	0.11
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.47	0.00	0.00	0.03	0.02
17	0.00	0.22	0.07	0.00	0.00	0.0	0.0	0.76	0.0	0.0	0.00	0.00
18	0.0	0.22	0.00	0.01	0.00	0.09	0.00	0.18	0.01	0.00	0.14	0.09
19	0.0	0.20	0.0	0.02	0.12	0.03	0.00	0.25	0.01	0.00	0.01	0.01
20	0.00	0.12	0.00	0.01	0.21	0.0	0.0	0.06	0.01	0.19	0.00	0.01
21	0.00	0.59	0.0	0.03	0.03	0.00	0.0	0.00	0.06	0.00	0.01	0.00
22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.07	0.10
23	0.00	0.19	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.41
24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.13	0.29
25	0.0	0.0	0.12	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.07
26	0.00	0.0	0.01	0.01	0.11	0.0	0.0	0.00	0.0	0.0	0.00	0.02
27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.03
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.01	0.00
30	0.10	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.07	0.08
31	0.02	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.00	0.0	0.0
TOTAL	0.71	1.83	0.46	0.55	0.97	0.41	0.10	3.48	0.15	0.77	2.01	1.48
STA AV												

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO WATERSHED W-1 (036068)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.09	0.01	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.08															
2	0.01	0.05	0.00	0.07	0.0	0.00	0.00	0.01	0.0	0.0	0.07	0.01															
3	0.01	0.00	0.00	0.00	0.0	0.00	0.0	0.02	0.0	0.0	0.40	0.00															
4	0.0	0.01	0.00	0.15	0.08	0.03	0.0	0.00	0.00	0.0	0.01	0.01															
5	0.01	0.01	0.13	0.23	0.05	0.01	0.0	0.0	0.00	0.0	0.00	0.00															
6	0.00	0.00	0.03	0.01	0.00	0.04	0.0	0.0	0.0	0.0	0.0	0.0															
7	0.00	0.0	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.0	0.04	0.0															
8	0.03	0.00	0.00	0.00	0.00	0.15	0.00	0.0	0.0	0.0	0.41	0.0															
9	0.07	0.00	0.00	0.0	0.00	0.00	0.05	0.54	0.0	0.0	0.29	0.0															
10	0.17	0.0	0.0	0.0	0.02	0.00	0.0	0.17	0.00	0.0	0.02	0.04															
11	0.00	0.0	0.0	0.00	0.07	0.00	0.0	0.01	0.00	0.03	0.05	0.07															
12	0.00	0.05	0.01	0.00	0.13	0.00	0.0	0.05	0.0	0.10	0.28	0.02															
13	0.00	0.06	0.07	0.0	0.06	0.00	0.0	0.14	0.00	0.21	0.01	0.00															
14	0.01	0.01	0.06	0.02	0.01	0.02	0.04	0.88	0.0	0.19	0.00	0.02															
15	0.18	0.04	0.00	0.03	0.03	0.0	0.0	0.00	0.05	0.04	0.07	0.13															
16	0.06	0.01	0.02	0.02	0.01	0.00	0.0	0.50	0.00	0.00	0.04	0.02															
17	0.00	0.23	0.10	0.00	0.00	0.0	0.0	0.80	0.0	0.0	0.00	0.01															
18	0.0	0.23	0.00	0.01	0.00	0.09	0.00	0.19	0.01	0.00	0.16	0.12															
19	0.0	0.21	0.0	0.02	0.12	0.03	0.00	0.26	0.02	0.00	0.01	0.01															
20	0.00	0.12	0.00	0.01	0.23	0.0	0.0	0.06	0.01	0.20	0.00	0.00															
21	0.00	0.62	0.0	0.03	0.03	0.00	0.0	0.00	0.07	0.00	0.01	0.01															
22	0.00	0.07	0.0	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.09	0.13															
23	0.00	0.20	0.0	0.0	0.04	0.02	0.0	0.0	0.0	0.0	0.02	0.47															
24	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.16	0.33															
25	0.0	0.0	0.14	0.00	0.03	0.0	0.0	0.00	0.0	0.0	0.01	0.09															
26	0.00	0.0	0.01	0.01	0.12	0.0	0.0	0.00	0.0	0.0	0.00	0.03															
27	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.0	0.0	0.00	0.00	0.03															
28	0.01	0.0	0.0	0.0	0.00	0.02	0.0	0.00	0.0	0.00	0.00	0.04															
29	0.01	0.00	0.0	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.01	0.00															
30	0.12	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.00	0.01	0.09	0.09															
31	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0															
TOTAL	0.82	1.93	0.59	0.66	1.04	0.43	0.10	3.63	0.17	0.81	2.26	1.77															
STA AV																											

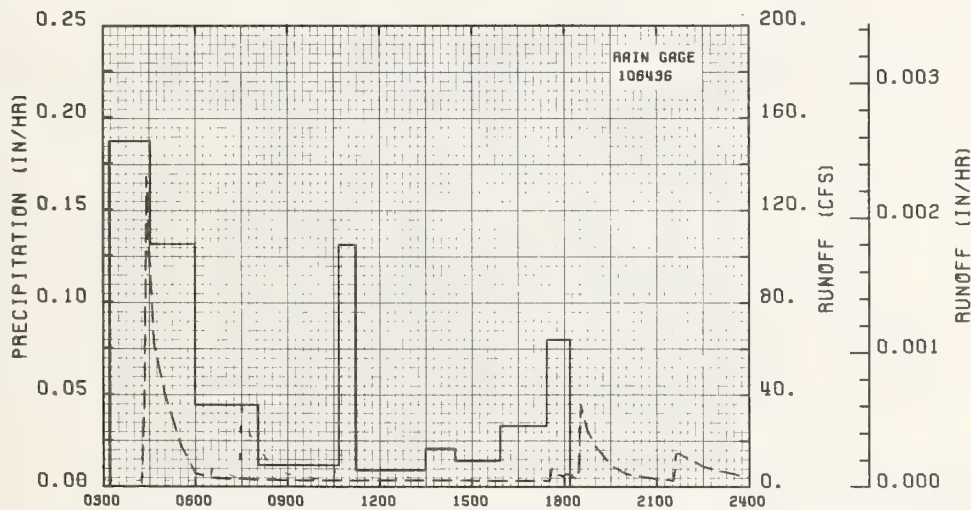
NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gauges. STA AV do not apply to shielded rain gauge records.

1968		MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO WATERSHED W-1 (036068)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	4.03	3.19	14.14	4.28	3.59	1.69	2.01	0.17	0.37	0.42	0.43	1.01	
2	2.70	3.91	15.41	4.35	3.20	1.60	1.63	0.14	0.34	0.38	0.48	1.07	
3	1.44	4.51	15.39	3.77	3.42	1.82	1.57	0.21	0.37	0.40	0.64	1.18	
4	1.61	4.24	16.91	3.21	2.99	1.95	1.34	0.27	0.51	0.41	0.68	1.11	
5	2.82	3.67	18.56	4.20	3.99	2.36	1.35	0.25	0.50	0.43	0.56	1.07	
6	1.34	2.53	16.20	4.20	3.40	2.31	1.50	0.17	0.50	0.40	0.54	1.01	
7	1.48	2.54	13.47	3.22	2.56	1.94	1.52	0.72	0.54	0.40	0.57	0.98	
8	1.64	2.62	12.02	2.91	2.46	2.10	1.49	1.80	0.51	0.38	0.75	1.08	
9	4.11	2.32	10.84	2.91	2.06	2.41	1.59	3.24	0.52	0.42	7.03	1.05	
10	4.83	2.31	9.20	2.88	2.15	2.33	1.40	2.60	0.49	0.44	3.50	1.01	
11	1.94	1.98	8.44	3.47	2.78	2.01	1.45	1.91	0.52	0.37	1.73	1.39	
12	3.53	1.88	8.40	3.98	4.68	1.98	1.33	1.72	0.55	0.33	1.11	1.43	
13	4.63	2.19	8.16	3.45	3.56	1.95	1.28	1.84	0.56	0.40	0.86	1.47	
14	4.69	1.70	7.79	2.98	2.49	2.01	1.13	6.79	0.58	0.46	0.73	2.48	
15	5.40	2.11	7.24	2.72	2.64	1.96	0.82	2.11	0.53	0.39	0.81	2.59	
16	6.71	2.14	6.60	2.96	2.73	1.82	0.67	1.73	0.50	0.33	0.78	2.60	
17	3.55	2.35	5.30	3.22	2.32	1.91	0.64	7.50	0.43	0.28	0.75	2.01	
18	3.69	12.25	4.47	3.48	2.60	1.86	0.80	2.06	0.38	0.30	0.86	1.73	
19	4.14	33.31	2.81	4.13	2.63	1.80	0.69	1.70	0.39	0.29	0.88	1.77	
20	3.96	83.21	2.92	3.78	3.56	1.80	0.90	1.38	0.43	0.39	0.91	1.76	
21	3.91	132.29	2.75	3.93	3.25	1.88	0.64	1.09	0.43	0.39	0.91	1.19	
22	3.67	49.27	2.48	3.63	3.18	1.95	0.58	0.72	0.42	0.35	0.93	1.30	
23	3.80	110.51	2.37	3.72	2.89	1.95	0.50	0.44	0.45	0.38	0.89	1.78	
24	3.76	53.47	2.21	3.87	2.56	1.95	0.44	0.41	0.47	0.37	1.06	13.51	
25	3.78	33.09	2.40	3.57	2.30	1.95	0.40	0.42	0.53	0.36	1.07	11.53	
26	2.33	26.41	2.51	3.46	3.09	1.66	0.48	0.36	0.51	0.35	1.26	6.38	
27	3.19	20.57	2.26	3.31	3.04	1.71	0.43	0.36	0.37	0.36	1.28	3.41	
28	2.31	17.14	2.29	3.22	2.55	1.24	0.40	0.36	0.37	0.39	1.07	4.02	
29	2.96	14.86	2.37	3.23	2.33	1.37	0.40	0.35	0.40	0.39	1.10	4.24	
30	6.55		2.89	3.61	2.22	1.73	0.25	0.37	0.41	0.41	1.21	2.55	
31	5.62		3.01		2.11		0.25	0.35		0.43		3.44	
MEAN	3.553	21.812	7.478	3.521	2.883	1.900	0.964	1.405	0.463	0.382	1.179	2.682	
INCHES	0.045	0.261	0.096	0.044	0.037	0.024	0.012	0.018	0.006	0.005	0.015	0.034	
STA AV	0.373	0.298	0.203	0.416	0.482	0.305	0.032	0.025	0.012	0.017	0.037	0.271	

NOTES: To convert CFS to IN/DAY, multiply by 0.000413. STA AV based on 6 yr (1963-68) record period.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF AUGUST 14, 1968									
RG 106436			RG 106436						
8-14	0.0	0.000	8-14	312	0.0	0.0	8-14	415	1.80
				432	0.1875	0.25		420	33.14
				559	0.1310	0.44		425	134.37
				802	0.0439	0.53		430	102.94
				1040	0.0114	0.56		440	60.54
WATERSHED CONDITIONS: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of alfalfa irrigated from streamflow, 3%.				1112	0.1312	0.63		500	40.50
				1329	0.0088	0.65		530	18.36
				1427	0.0207	0.67		600	5.34
				1555	0.0136	0.69		630	3.62
				1726	0.0330	0.74		700	3.13
				1811	0.0800	0.80		900	2.67
								1200	2.58
								1730	2.42
								1735	7.74
								1745	5.60
								1755	4.49
								1803	5.60
								1825	3.22
								1828	7.74
								1830	24.26
								1832	35.26
								1845	24.26
								1900	17.63
								1930	9.20
								2000	5.34
								2100	3.13
								2132	2.58
								2135	7.74
								2137	14.42
								2140	14.63
								2200	12.14
								2230	8.53
								2300	6.69
								2330	5.34
								2400	3.83

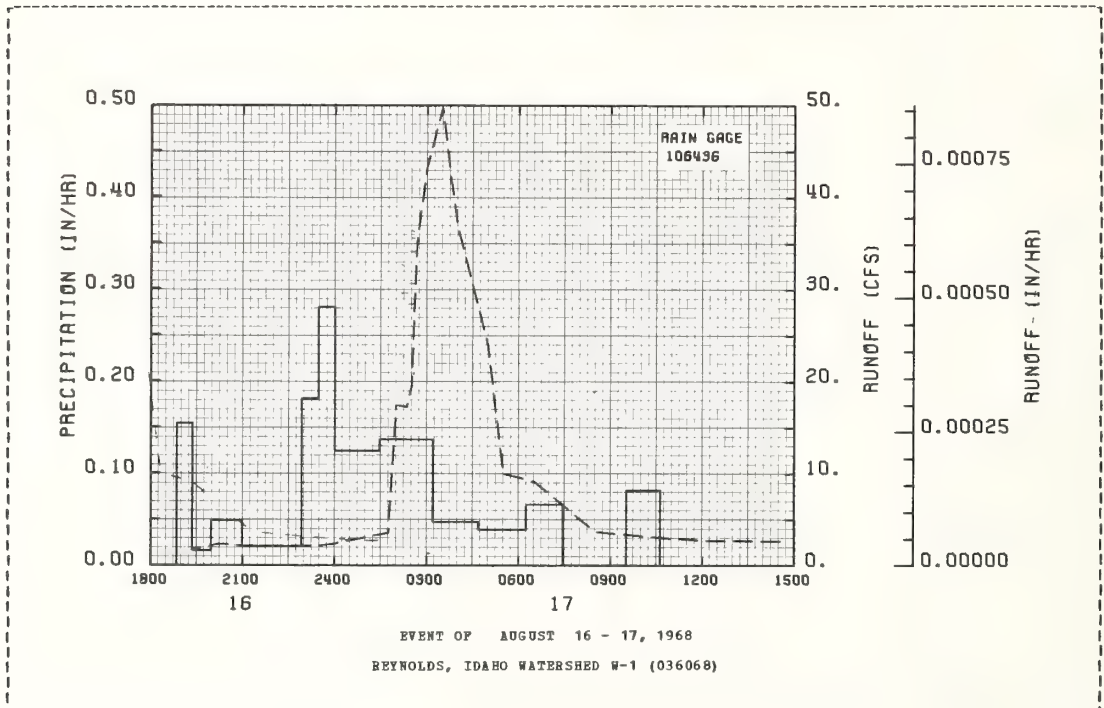
NOTES: To convert CFS to IN/HR, multiply by 0.00001717.



EVENT OF AUGUST 14, 1968
REYNOLDS, IDAHO WATERSHED W-1 (036068)

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 16 - 17, 1968										
RG 106436			RG 106436							
8-16	0.02	0.001	8-16	1850	0.0	0.0	8-16	1920	1.73	0.0
				1921	0.1548	0.08		2010	2.33	0.0
				1958	0.0162	0.09		2100	2.10	0.0
				2059	0.0492	0.14		2320	2.10	0.0001
				2255	0.0207	0.18		2400	2.42	0.0001
WATERSHED CONDITIONS: Predominately sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of alfalfa irrigated from streamflow, 3%.				2328	0.1818	0.28	8-17	145	3.62	0.0002
				2400	0.2812	0.43		200	17.38	0.0002
			8-17	127	0.1241	0.61		220	17.14	0.0003
				312	0.1371	0.85		230	19.62	0.0004
				441	0.0472	0.92		240	34.90	0.0005
				614	0.0387	0.98		300	43.30	0.0007
				726	0.0667	1.06		330	49.67	0.0011
				931	0.0	1.06		345	42.49	0.0013
				1037	0.0818	1.15		400	36.71	0.0015
								500	23.68	0.0020
								530	9.89	0.0021
								630	9.03	0.0023
								830	3.62	0.0025
								1000	3.13	0.0026
								1200	2.67	0.0027
								2400	2.25	0.0032

NOTES: To convert CFS to IN/HR, multiply by 0.00001717.





REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	16.60															
	O	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054	0.745															
STA AV	P	0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.51	2.06	0.0															
	O	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093	2.331															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		Date		Date													
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		2-21	0.003	2-21	0.003	2-21	0.006	2-21	0.016	2-21	0.026	2-21	0.039	2-21	0.069	2-18	0.202												
MAXIMUMS FOR PERIOD OF RECORD																													
		8-23	0.073	8-23	0.044	8-23	0.056	1-28	0.114	1-28	0.208	1-28	0.379	1-28	0.766	1-28	1.495												
		1965		1965		1965		1965		1965		1965		1965		1965													

NOTES: Watershed conditions: Predominately sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 68.2-7. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 59 miles N.E. of Watershed.

1968 DAILY PRECIPITATION (inches)													REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.10	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11													
2	0.02	0.07	0.00	0.12	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00													
3	0.01	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.38	0.0													
4	0.0	0.04	0.0	0.21	0.09	0.00	0.0	0.01	0.0	0.0	0.00	0.05													
5	0.04	0.0	0.16	0.28	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0													
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0													
8	0.04	0.00	0.0	0.0	0.0	0.26	0.01	0.0	0.0	0.0	0.61	0.0													
9	0.09	0.01	0.0	0.0	0.0	0.0	0.00	0.41	0.0	0.0	0.08	0.0													
10	0.17	0.0	0.0	0.0	0.12	0.00	0.0	0.22	0.0	0.0	0.03	0.05													
11	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.04	0.0	0.04	0.07	0.08													
12	0.0	0.10	0.00	0.0	0.23	0.0	0.0	0.05	0.0	0.07	0.45	0.0													
13	0.0	0.08	0.08	0.0	0.08	0.0	0.0	0.08	0.0	0.20	0.01	0.01													
14	0.01	0.00	0.12	0.0	0.01	0.0	0.07	0.73	0.0	0.20	0.0	0.03													
15	0.21	0.02	0.0	0.01	0.02	0.0	0.0	0.0	0.03	0.05	0.08	0.12													
16	0.10	0.0	0.02	0.01	0.00	0.0	0.0	0.47	0.0	0.00	0.13	0.02													
17	0.01	0.26	0.25	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.00													
18	0.0	0.36	0.0	0.05	0.0	0.01	0.0	0.16	0.02	0.0	0.18	0.09													
19	0.0	0.35	0.0	0.06	0.14	0.0	0.0	0.32	0.0	0.0	0.00	0.04													
20	0.0	0.18	0.0	0.02	0.32	0.0	0.0	0.05	0.04	0.31	0.02	0.01													
21	0.0	0.65	0.0	0.11	0.11	0.0	0.0	0.0	0.16	0.0	0.00	0.0													
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.06	0.17													
23	0.0	0.33	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.69													
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.15	0.29													
25	0.0	0.0	0.19	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.11													
26	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.05													
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01													
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01													
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0													
30	0.06		0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.10	0.10													
31	0.01		0.0		0.0		0.00	0.0		0.0		0.0													
TOTAL		0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.06													
STA AV		0.86	2.50	0.83	0.97	1.67	0.37	0.10	3.57	0.25	0.91	2.06													

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.08	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08
2	0.01	0.06	0.00	0.10	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.33	0.0
4	0.0	0.04	0.0	0.15	0.07	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.03	0.0	0.12	0.21	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0
8	0.03	0.00	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.51	0.0
9	0.05	0.01	0.0	0.0	0.0	0.0	0.00	0.39	0.0	0.0	0.07	0.0
10	0.10	0.0	0.0	0.0	0.08	0.00	0.0	0.21	0.0	0.0	0.02	0.05
11	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.04	0.0	0.04	0.06	0.06
12	0.0	0.09	0.00	0.0	0.20	0.0	0.0	0.05	0.0	0.06	0.34	0.0
13	0.0	0.06	0.05	0.0	0.07	0.0	0.0	0.07	0.0	0.16	0.01	0.01
14	0.01	0.00	0.07	0.0	0.01	0.0	0.05	0.69	0.0	0.17	0.0	0.02
15	0.15	0.01	0.0	0.00	0.01	0.0	0.0	0.0	0.02	0.04	0.05	0.09
16	0.07	0.0	0.01	0.01	0.00	0.0	0.0	0.42	0.0	0.00	0.08	0.02
17	0.01	0.24	0.13	0.0	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.00
18	0.0	0.32	0.0	0.03	0.0	0.00	0.0	0.14	0.02	0.0	0.12	0.07
19	0.0	0.31	0.0	0.04	0.11	0.0	0.0	0.30	0.0	0.0	0.00	0.02
20	0.0	0.16	0.0	0.01	0.26	0.0	0.0	0.04	0.03	0.28	0.02	0.00
21	0.0	0.59	0.0	0.08	0.11	0.0	0.0	0.0	0.10	0.0	0.00	0.0
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.05	0.12
23	0.0	0.29	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.53
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.12	0.22
25	0.0	0.0	0.14	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.07
26	0.0	0.0	0.0	0.02	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0
30	0.05		0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.07	0.08
31	0.01		0.0		0.0		0.00	0.0		0.0		0.0
TOTAL	0.61	2.23	0.53	0.71	1.41	0.33	0.09	3.34	0.17	0.78	1.99	1.55
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
2	0.01	0.07	0.00	0.11	0.0	0.00	0.02	0.02	0.0	0.0	0.08	0.00
3	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0	0.35	0.0
4	0.0	0.04	0.0	0.18	0.08	0.00	0.0	0.01	0.0	0.0	0.00	0.04
5	0.04	0.0	0.14	0.24	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.04	0.0
8	0.03	0.00	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.56	0.0
9	0.07	0.01	0.0	0.0	0.0	0.0	0.00	0.40	0.0	0.0	0.07	0.0
10	0.13	0.0	0.0	0.0	0.10	0.00	0.0	0.21	0.0	0.0	0.03	0.05
11	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.04	0.0	0.04	0.06	0.07
12	0.0	0.10	0.00	0.0	0.22	0.0	0.0	0.05	0.0	0.06	0.39	0.0
13	0.0	0.07	0.06	0.0	0.07	0.0	0.0	0.07	0.0	0.18	0.01	0.01
14	0.01	0.00	0.09	0.0	0.01	0.0	0.06	0.71	0.0	0.19	0.0	0.03
15	0.18	0.01	0.0	0.00	0.02	0.0	0.0	0.0	0.02	0.05	0.06	0.10
16	0.09	0.0	0.01	0.01	0.00	0.0	0.0	0.45	0.0	0.00	0.11	0.02
17	0.01	0.25	0.18	0.0	0.0	0.0	0.0	0.92	0.0	0.0	0.0	0.00
18	0.0	0.34	0.0	0.04	0.0	0.00	0.0	0.15	0.02	0.0	0.15	0.08
19	0.0	0.33	0.0	0.05	0.12	0.0	0.0	0.31	0.0	0.0	0.00	0.03
20	0.0	0.17	0.0	0.02	0.29	0.0	0.0	0.04	0.04	0.30	0.02	0.00
21	0.0	0.62	0.0	0.10	0.11	0.0	0.0	0.0	0.13	0.0	0.00	0.0
22	0.0	0.06	0.0	0.0	0.00	0.01	0.0	0.00	0.0	0.0	0.06	0.14
23	0.0	0.31	0.0	0.0	0.01	0.00	0.0	0.0	0.0	0.0	0.01	0.61
24	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.14	0.25
25	0.0	0.0	0.17	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.00	0.09
26	0.0	0.0	0.0	0.03	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.04
27	0.00	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.0	0.01
28	0.00	0.0	0.0	0.0	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.01
29	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.03	0.00	0.0
30	0.06		0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.09	0.09
31	0.01		0.0		0.0		0.00	0.0		0.0		0.0
TOTAL	0.73	2.37	0.66	0.83	1.54	0.35	0.10	3.46	0.21	0.84	2.25	1.79
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.101	0.992	3.190	1.056	0.659	0.087	0.031	0.019	0.009	0.009	0.230	0.570
2	0.865	1.202	2.940	1.182	0.718	0.087	0.031	0.016	0.009	0.009	0.209	0.685
3	0.618	1.287	2.698	1.115	0.704	0.102	0.031	0.016	0.009	0.009	0.344	0.593
4	0.821	1.249	2.473	1.109	0.783	0.117	0.027	0.019	0.009	0.009	0.334	0.620
5	1.080	1.194	2.589	1.556	0.894	0.126	0.023	0.023	0.009	0.009	0.257	0.592
6	0.641	1.120	2.527	1.373	0.801	0.134	0.023	0.027	0.009	0.009	0.272	0.510
7	0.683	1.143	2.315	1.236	0.706	0.143	0.023	0.031	0.009	0.009	0.290	0.540
8	1.006	1.069	2.136	1.187	0.626	0.152	0.023	0.031	0.009	0.012	0.448	0.638
9	1.043	1.010	2.046	1.135	0.576	0.143	0.023	0.031	0.009	0.016	0.547	0.550
10	0.982	1.121	1.908	1.077	0.668	0.134	0.023	0.027	0.009	0.019	0.408	0.582
11	0.620	0.991	1.976	1.070	0.707	0.126	0.023	0.019	0.009	0.027	0.417	0.689
12	0.638	0.898	1.875	1.059	0.870	0.117	0.027	0.016	0.009	0.041	0.613	0.393
13	1.067	1.002	1.905	0.970	0.795	0.117	0.027	0.012	0.009	0.069	0.490	0.423
14	0.899	0.859	1.867	0.983	0.715	0.117	0.023	0.009	0.009	0.071	0.385	0.550
15	1.270	1.156	1.954	0.950	0.663	0.117	0.023	0.009	0.009	0.081	0.422	0.661
16	1.116	1.099	1.644	0.970	0.608	0.110	0.023	0.009	0.009	0.087	0.448	0.558
17	0.833	1.322	1.832	0.803	0.519	0.095	0.023	0.009	0.009	0.095	0.440	0.422
18	0.966	3.866	1.633	0.804	0.472	0.081	0.023	0.009	0.009	0.106	0.583	0.470
19	1.057	5.668	1.564	0.801	0.562	0.074	0.027	0.009	0.009	0.116	0.638	0.486
20	1.090	12.533	1.790	0.714	0.698	0.074	0.031	0.009	0.009	0.184	0.602	0.383
21	1.011	13.802	1.497	0.753	0.619	0.068	0.027	0.009	0.009	0.202	0.592	0.367
22	1.013	8.830	1.360	0.722	0.524	0.062	0.023	0.009	0.009	0.144	0.584	0.437
23	1.046	14.261	1.282	0.701	0.516	0.056	0.023	0.009	0.009	0.153	0.620	0.584
24	1.126	8.793	1.188	0.618	0.385	0.050	0.023	0.009	0.009	0.192	0.731	1.602
25	1.116	6.350	1.135	0.567	0.240	0.050	0.023	0.009	0.009	0.192	0.598	1.329
26	0.909	5.359	1.074	0.571	0.352	0.050	0.023	0.009	0.009	0.143	0.532	1.039
27	0.979	4.398	1.067	0.515	0.244	0.045	0.023	0.009	0.009	0.168	0.594	0.863
28	0.747	3.936	1.054	0.488	0.131	0.045	0.023	0.009	0.009	0.197	0.597	0.856
29	1.173	3.697	1.001	0.457	0.094	0.045	0.023	0.009	0.009	0.199	0.566	0.609
30	1.129		1.000	0.435	0.096	0.036	0.023	0.009	0.009	0.206	0.586	0.820
31	0.966		1.007		0.081		0.023	0.009		0.212		0.970
MEAN	0.9552	3.8002	1.7910	0.8993	0.5493	0.0921	0.0246	0.0146	0.0092	0.0966	0.4793	0.6578
INCHES	0.078	0.292	0.147	0.071	0.045	0.007	0.002	0.001	0.001	0.008	0.038	0.054
STA AV	0.599	0.395	0.251	0.283	0.320	0.162	0.028	0.070	0.029	0.038	0.064	0.093

NOTES: To convert CFS to IN/DAY, multiply by. 0.002648.

REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	14.82															
	O	0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008	0.472															
STA AV	P	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58	0.0															
	O	0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022	0.869															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		2-21	0.005	2-21	0.005	2-21	0.010	2-21	0.026	2-21	0.039	2-21	0.054	2-19	0.081	2-18	0.208												
MAXIMUMS FOR PERIOD OF RECORD																													
		1-21	0.011	1-21	0.010	1-21	0.020	1-21	0.053	1-21	0.096	1-21	0.124	1-21	0.150	1-21	0.286												
		1967		1967		1967		1967		1967		1967		1967		1967													

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluebunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and hay crops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of watershed.

1968 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.10	0.00	0.0	0.08	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.08															
2	0.01	0.08	0.00	0.14	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.02															
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00															
4	0.0	0.01	0.0	0.16	0.07	0.01	0.0	0.00	0.00	0.0	0.01	0.02															
5	0.02	0.0	0.22	0.37	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01															
6	0.01	0.0	0.04	0.01	0.00	0.03	0.0	0.0	0.0	0.0	0.0	0.0															
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0															
8	0.03	0.0	0.0	0.0	0.00	0.11	0.01	0.0	0.0	0.0	0.57	0.0															
9	0.06	0.0	0.0	0.0	0.00	0.00	0.00	0.42	0.0	0.0	0.07	0.0															
10	0.19	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.05															
11	0.0	0.0	0.0	0.0	0.13	0.01	0.0	0.01	0.0	0.02	0.06	0.06															
12	0.0	0.05	0.01	0.00	0.32	0.0	0.0	0.06	0.0	0.09	0.35	0.00															
13	0.0	0.12	0.06	0.0	0.08	0.0	0.0	0.08	0.00	0.15	0.01	0.00															
14	0.0	0.02	0.08	0.0	0.02	0.01	0.05	1.10	0.0	0.18	0.01	0.04															
15	0.14	0.02	0.0	0.01	0.05	0.0	0.0	0.00	0.06	0.05	0.06	0.10															
16	0.11	0.00	0.00	0.02	0.01	0.00	0.0	0.45	0.0	0.02	0.07	0.03															
17	0.0	0.26	0.17	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.01															
18	0.0	0.33	0.00	0.03	0.00	0.00	0.00	0.16	0.01	0.00	0.20	0.10															
19	0.0	0.19	0.0	0.04	0.09	0.0	0.0	0.27	0.00	0.0	0.04	0.01															
20	0.0	0.12	0.00	0.00	0.19	0.0	0.0	0.03	0.03	0.30	0.01	0.00															
21	0.0	0.62	0.0	0.07	0.09	0.00	0.0	0.01	0.16	0.00	0.03	0.01															
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.11	0.10															
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.44															
24	0.01	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.15	0.33															
25	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02	0.09															
26	0.0	0.0	0.00	0.00	0.10	0.0	0.0	0.00	0.0	0.0	0.01	0.02															
27	0.01	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.01	0.00															
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01															
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.03	0.00															
30	0.20		0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.09	0.06															
31	0.02		0.0		0.0		0.00	0.0		0.0		0.0															
TOTAL	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58															
STA AV	0.92	2.15	0.75	0.93	1.34	0.24	0.08	3.37	0.27	0.87	2.34	1.58															

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Oslo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (O/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.00	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.05
2	0.01	0.06	0.00	0.08	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.01
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.28	0.00
4	0.0	0.01	0.0	0.10	0.06	0.01	0.0	0.00	0.00	0.0	0.01	0.01
5	0.02	0.0	0.15	0.21	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01
6	0.01	0.0	0.03	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.00	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.54	0.0
9	0.04	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.06	0.0
10	0.11	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0	0.0	0.01	0.04
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.05	0.05
12	0.0	0.04	0.00	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.28	0.00
13	0.0	0.11	0.03	0.0	0.08	0.0	0.0	0.07	0.00	0.14	0.01	0.00
14	0.0	0.01	0.04	0.0	0.02	0.01	0.04	1.03	0.0	0.16	0.01	0.03
15	0.08	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.03	0.05	0.04	0.08
16	0.06	0.00	0.00	0.01	0.01	0.00	0.0	0.44	0.0	0.01	0.04	0.02
17	0.0	0.24	0.08	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00
18	0.0	0.31	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.12	0.07
19	0.0	0.19	0.0	0.02	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00
20	0.0	0.11	0.00	0.00	0.17	0.0	0.0	0.03	0.01	0.29	0.01	0.00
21	0.0	0.62	0.0	0.03	0.09	0.00	0.0	0.01	0.08	0.00	0.02	0.00
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.06	0.07
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.35
24	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.10	0.25
25	0.0	0.0	0.10	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.06
26	0.0	0.0	0.00	0.00	0.09	0.0	0.0	0.00	0.0	0.0	0.00	0.02
27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.00	0.00
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	0.00
30	0.10	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.05	0.05
31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.58	2.04	0.45	0.52	1.25	0.22	0.07	3.25	0.15	0.81	1.88	1.17
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.10	0.00	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.07
2	0.01	0.07	0.00	0.10	0.0	0.00	0.0	0.00	0.0	0.0	0.07	0.01
3	0.01	0.00	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.29	0.00
4	0.0	0.01	0.0	0.12	0.06	0.01	0.0	0.00	0.00	0.0	0.01	0.01
5	0.02	0.0	0.18	0.28	0.04	0.00	0.0	0.0	0.00	0.0	0.00	0.01
6	0.01	0.0	0.04	0.01	0.00	0.02	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.0	0.01	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.05	0.0
8	0.02	0.0	0.0	0.0	0.00	0.10	0.01	0.0	0.0	0.0	0.55	0.0
9	0.05	0.0	0.0	0.0	0.00	0.00	0.00	0.41	0.0	0.0	0.07	0.0
10	0.15	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.0	0.0	0.01	0.04
11	0.0	0.0	0.0	0.0	0.13	0.00	0.0	0.01	0.0	0.02	0.06	0.05
12	0.0	0.05	0.01	0.00	0.31	0.0	0.0	0.06	0.0	0.08	0.32	0.00
13	0.0	0.12	0.04	0.0	0.08	0.0	0.0	0.07	0.00	0.15	0.01	0.00
14	0.0	0.01	0.06	0.0	0.02	0.01	0.04	1.06	0.0	0.17	0.01	0.04
15	0.11	0.02	0.0	0.00	0.05	0.0	0.0	0.00	0.04	0.05	0.05	0.09
16	0.08	0.00	0.00	0.01	0.01	0.00	0.0	0.45	0.0	0.01	0.05	0.02
17	0.0	0.25	0.12	0.00	0.00	0.0	0.0	0.68	0.0	0.0	0.01	0.00
18	0.0	0.32	0.00	0.01	0.00	0.00	0.00	0.16	0.01	0.00	0.15	0.09
19	0.0	0.19	0.0	0.03	0.09	0.0	0.0	0.27	0.00	0.0	0.03	0.00
20	0.0	0.11	0.00	0.00	0.18	0.0	0.0	0.03	0.02	0.30	0.01	0.00
21	0.0	0.62	0.0	0.04	0.09	0.00	0.0	0.01	0.12	0.00	0.03	0.00
22	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.00	0.0	0.00	0.08	0.08
23	0.0	0.22	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.40
24	0.01	0.0	0.00	0.0	0.00	0.00	0.0	0.0	0.01	0.0	0.12	0.28
25	0.0	0.0	0.12	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.08
26	0.0	0.0	0.00	0.00	0.10	0.0	0.0	0.00	0.0	0.0	0.01	0.02
27	0.00	0.0	0.00	0.0	0.03	0.0	0.01	0.0	0.0	0.00	0.01	0.00
28	0.01	0.0	0.0	0.0	0.02	0.04	0.0	0.0	0.0	0.0	0.00	0.01
29	0.01	0.00	0.0	0.01	0.00	0.01	0.00	0.0	0.00	0.05	0.02	0.00
30	0.15	0.0	0.0	0.0	0.00	0.00	0.01	0.0	0.00	0.00	0.07	0.05
31	0.01	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0
TOTAL	0.73	2.09	0.58	0.69	1.30	0.22	0.07	3.31	0.20	0.84	2.09	1.37
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 shielded recording gages. STA AV do not apply to shielded rain gage records.

REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.433	0.425	1.229	0.430	0.272	0.138	0.043	0.011	0.006	0.006	0.011	0.011
2	0.301	0.683	1.225	0.641	0.230	0.130	0.034	0.011	0.006	0.006	0.011	0.011
3	0.171	0.779	1.434	0.535	0.263	0.122	0.030	0.011	0.006	0.006	0.011	0.011
4	0.276	0.768	1.432	0.641	0.404	0.122	0.030	0.011	0.006	0.006	0.014	0.011
5	0.350	0.725	1.356	0.771	0.473	0.122	0.030	0.011	0.006	0.006	0.017	0.011
6	0.186	0.624	1.433	0.698	0.376	0.122	0.030	0.011	0.006	0.006	0.017	0.011
7	0.144	0.683	1.328	0.803	0.293	0.122	0.030	0.011	0.006	0.006	0.017	0.011
8	0.164	0.611	1.233	0.609	0.252	0.122	0.030	0.011	0.006	0.006	0.017	0.011
9	0.541	0.498	0.956	0.473	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.011
10	0.616	0.543	0.556	0.544	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.014
11	0.267	0.397	0.563	0.584	0.230	0.107	0.030	0.011	0.006	0.006	0.017	0.017
12	0.268	0.340	0.645	0.501	0.230	0.114	0.030	0.011	0.006	0.006	0.017	0.017
13	0.363	0.321	0.645	0.605	0.220	0.114	0.030	0.011	0.006	0.006	0.017	0.020
14	0.369	0.280	0.660	0.826	0.210	0.107	0.030	0.011	0.006	0.006	0.017	0.026
15	0.625	0.343	0.678	0.639	0.210	0.100	0.030	0.011	0.006	0.006	0.017	0.039
16	0.572	0.320	0.668	0.487	0.210	0.093	0.026	0.011	0.006	0.006	0.017	0.047
17	0.355	0.486	0.760	0.485	0.201	0.087	0.023	0.011	0.006	0.006	0.017	0.043
18	0.375	6.757	0.782	0.574	0.191	0.080	0.023	0.011	0.006	0.006	0.017	0.048
19	0.409	5.436	0.737	0.608	0.191	0.074	0.023	0.011	0.006	0.006	0.017	0.057
20	0.410	10.362	0.737	0.543	0.189	0.068	0.023	0.011	0.006	0.006	0.014	0.057
21	0.443	16.656	0.651	0.568	0.172	0.063	0.023	0.011	0.006	0.006	0.011	0.057
22	0.433	7.262	0.738	0.659	0.163	0.052	0.023	0.011	0.006	0.006	0.011	0.075
23	0.454	12.137	0.737	0.628	0.163	0.047	0.020	0.009	0.006	0.006	0.011	0.115
24	0.453	5.512	0.809	0.557	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.714
25	0.460	3.983	1.189	0.571	0.172	0.047	0.017	0.006	0.006	0.006	0.011	0.544
26	0.342	2.820	1.210	0.631	0.172	0.052	0.017	0.006	0.006	0.006	0.011	0.182
27	0.337	1.969	1.024	0.513	0.163	0.057	0.017	0.006	0.006	0.006	0.011	0.138
28	0.270	1.615	0.952	0.393	0.154	0.057	0.014	0.006	0.006	0.006	0.011	0.107
29	0.360	1.289	0.774	0.341	0.154	0.052	0.011	0.006	0.006	0.006	0.011	0.100
30	0.424		0.492	0.285	0.166	0.047	0.011	0.006	0.006	0.006	0.011	0.107
31	0.406		0.337		0.138		0.011	0.006		0.009		0.107
MEAN	0.3735	2.9179	0.9025	0.5715	0.2226	0.0896	0.0247	0.0099	0.0065	0.0066	0.0141	0.0882
INCHES	0.035	0.257	0.085	0.052	0.021	0.008	0.002	0.001	0.001	0.001	0.001	0.008
STA AV	0.178	0.166	0.170	0.139	0.103	0.076	0.007	0.002	0.002	0.002	0.003	0.022

NOTES: To convert CFS to IN/DAY, multiply by 0.003034.

REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa; main stem of Reynolds Creek which is tributary to the Snake River.

AREA: 13453.00 acres 21.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	24.96	
	O	0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157	3.184	
STA AV	P	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	0.0	
	O	0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144	6.373	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		2-21	0.013	2-21	0.013	2-21	0.025	2-21	0.057	2-21	0.100	2-21	0.140	2-19	0.216
		2-19	0.588												
MAXIMUMS FOR PERIOD OF RECORD															
		6-7	0.021	6-7	0.019	6-7	0.036	6-7	0.082	6-7	0.129	6-7	0.214	6-7	0.417
		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed condition - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominately of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 25% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.4-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 16 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho; 50 miles N.E. of Watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)												
Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
144062	011568	5.90	020168	5.80	021568	6.30	030168	4.25			121168	1.71
155054			020168	5.40	021568	6.20	030168	4.30			121168	1.04
163020	011568	10.00	020168	10.90	021568	11.30	030168	13.90	031568	15.20	121168	4.80
163098	011568	7.40	020168	9.30	021568	9.60	030168	12.80	031568	12.00	121168	3.00
167007	011568	4.90	020168	5.40	021568	4.20	030168	4.40	031568	4.90	121168	2.10
174026	011568	6.80	020168	9.10	021568	9.04	030168	11.60	031568	10.90	121168	2.65

1968 DAILY PRECIPITATION (inches)							REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)						
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.16	0.05	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
2	0.04	0.12	0.0	0.06	0.0	0.00	0.0	0.0	0.0	0.0	0.20	0.02	
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.51	0.0	
4	0.0	0.01	0.00	0.38	0.11	0.10	0.0	0.00	0.0	0.0	0.04	0.01	
5	0.0	0.02	0.21	0.45	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.01	
6	0.0	0.00	0.06	0.02	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.04	0.0	
8	0.09	0.0	0.0	0.00	0.0	0.28	0.00	0.0	0.0	0.0	0.49	0.0	
9	0.18	0.0	0.00	0.0	0.01	0.01	0.15	0.25	0.0	0.0	1.09	0.0	
10	0.37	0.0	0.0	0.0	0.01	0.0	0.0	0.42	0.01	0.0	0.05	0.04	
11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.06	0.15	
12	0.00	0.04	0.00	0.0	0.11	0.00	0.0	0.02	0.0	0.14	0.39	0.07	
13	0.00	0.07	0.18	0.0	0.08	0.00	0.0	0.38	0.00	0.32	0.02	0.0	
14	0.05	0.01	0.15	0.16	0.0	0.02	0.04	1.12	0.0	0.30	0.00	0.06	
15	0.43	0.07	0.0	0.11	0.06	0.0	0.0	0.00	0.12	0.08	0.22	0.22	
16	0.07	0.04	0.05	0.04	0.01	0.0	0.0	0.69	0.00	0.00	0.04	0.05	
17	0.00	0.33	0.17	0.00	0.01	0.0	0.0	0.81	0.0	0.0	0.0	0.01	
18	0.0	0.37	0.01	0.02	0.0	0.07	0.0	0.38	0.03	0.0	0.25	0.39	
19	0.0	0.51	0.0	0.04	0.14	0.11	0.00	0.38	0.06	0.01	0.0	0.02	
20	0.01	0.26	0.0	0.03	0.32	0.0	0.0	0.12	0.01	0.25	0.00	0.03	
21	0.01	1.09	0.0	0.02	0.0	0.00	0.0	0.01	0.16	0.0	0.04	0.03	
22	0.01	0.17	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.17	0.33	
23	0.0	0.37	0.0	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.04	0.95	
24	0.0	0.0	0.0	0.0	0.01	0.00	0.00	0.0	0.0	0.0	0.46	0.80	
25	0.0	0.0	0.25	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.04	0.15	
26	0.01	0.0	0.0	0.02	0.15	0.0	0.0	0.00	0.0	0.0	0.00	0.06	
27	0.02	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.17	
28	0.01	0.0	0.0	0.0	0.0	0.05	0.0	0.00	0.0	0.0	0.00	0.14	
29	0.04	0.00	0.0	0.0	0.00	0.04	0.00	0.00	0.0	0.04	0.04	0.01	
30	0.22		0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.04	0.16	0.12	
31	0.09		0.0		0.0					0.00		0.0	
TOTAL	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	
STA AV	1.84	3.53	1.15	1.46	1.34	0.90	0.19	4.62	0.40	1.24	4.35	3.96	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 15 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hason, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (0/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

Cooperative Research Project of USDA and USDI and Idaho Agricultural Experiment Station

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.11	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
2	0.02	0.09	0.0	0.04	0.0	0.00	0.0	0.0	0.0	0.0	0.16	0.01
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.43	0.0
4	0.0	0.00	0.00	0.28	0.09	0.09	0.0	0.00	0.0	0.0	0.03	0.01
5	0.0	0.00	0.15	0.32	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.00
6	0.0	0.00	0.05	0.01	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.03	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0
8	0.05	0.0	0.0	0.00	0.0	0.25	0.00	0.0	0.0	0.0	0.40	0.0
9	0.13	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.83	0.0
10	0.24	0.0	0.0	0.0	0.01	0.0	0.0	0.40	0.01	0.0	0.03	0.02
11	0.00	0.0	0.0	0.00	0.05	0.01	0.0	0.01	0.00	0.04	0.04	0.09
12	0.00	0.03	0.00	0.0	0.09	0.00	0.0	0.02	0.0	0.12	0.28	0.05
13	0.00	0.06	0.10	0.0	0.06	0.00	0.0	0.29	0.00	0.28	0.01	0.0
14	0.03	0.01	0.08	0.05	0.0	0.01	0.02	0.94	0.0	0.25	0.00	0.04
15	0.38	0.06	0.0	0.06	0.04	0.0	0.0	0.00	0.11	0.07	0.14	0.13
16	0.06	0.03	0.03	0.03	0.01	0.0	0.0	0.56	0.00	0.00	0.03	0.03
17	0.00	0.28	0.09	0.00	0.01	0.0	0.0	0.65	0.0	0.0	0.0	0.01
18	0.0	0.32	0.00	0.02	0.0	0.07	0.0	0.32	0.02	0.0	0.16	0.20
19	0.0	0.46	0.0	0.02	0.13	0.09	0.00	0.31	0.03	0.01	0.0	0.01
20	0.00	0.24	0.0	0.02	0.29	0.0	0.0	0.11	0.01	0.22	0.00	0.02
21	0.01	1.00	0.0	0.02	0.0	0.00	0.0	0.01	0.09	0.0	0.02	0.01
22	0.01	0.15	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.11	0.17
23	0.0	0.33	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.65
24	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.0	0.0	0.0	0.27	0.54
25	0.0	0.0	0.16	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.02	0.08
26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.03
27	0.01	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.09
28	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.00	0.0	0.0	0.00	0.08
29	0.02	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.03	0.02	0.00
30	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.03	0.10	0.07
31	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0
TOTAL	1.31	3.10	0.70	0.95	1.17	0.73	0.17	3.89	0.28	1.06	3.16	2.44
STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.13	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
2	0.03	0.10	0.0	0.05	0.0	0.00	0.0	0.0	0.0	0.0	0.18	0.02
3	0.01	0.0	0.00	0.0	0.0	0.01	0.0	0.00	0.0	0.0	0.47	0.0
4	0.0	0.00	0.00	0.33	0.10	0.09	0.0	0.00	0.0	0.0	0.04	0.01
5	0.0	0.01	0.18	0.38	0.06	0.02	0.0	0.0	0.0	0.0	0.0	0.00
6	0.0	0.00	0.06	0.02	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.04	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.03	0.0
8	0.07	0.0	0.0	0.00	0.0	0.27	0.00	0.0	0.0	0.0	0.44	0.0
9	0.15	0.0	0.00	0.0	0.01	0.01	0.14	0.24	0.0	0.0	0.95	0.0
10	0.30	0.0	0.0	0.0	0.01	0.0	0.0	0.41	0.01	0.0	0.04	0.03
11	0.00	0.0	0.0	0.00	0.06	0.01	0.0	0.01	0.00	0.04	0.05	0.12
12	0.00	0.04	0.00	0.0	0.10	0.00	0.0	0.02	0.0	0.13	0.33	0.06
13	0.00	0.07	0.14	0.0	0.07	0.00	0.0	0.34	0.00	0.30	0.01	0.0
14	0.04	0.01	0.11	0.09	0.0	0.02	0.03	1.03	0.0	0.28	0.00	0.05
15	0.41	0.07	0.0	0.08	0.05	0.0	0.0	0.00	0.12	0.07	0.18	0.17
16	0.07	0.03	0.04	0.04	0.01	0.0	0.0	0.62	0.00	0.00	0.03	0.04
17	0.00	0.31	0.13	0.00	0.01	0.0	0.0	0.73	0.0	0.0	0.0	0.01
18	0.0	0.35	0.00	0.02	0.0	0.07	0.0	0.35	0.02	0.0	0.20	0.29
19	0.0	0.49	0.0	0.03	0.14	0.10	0.00	0.34	0.04	0.01	0.0	0.02
20	0.00	0.25	0.0	0.02	0.31	0.0	0.0	0.12	0.01	0.24	0.00	0.03
21	0.01	1.05	0.0	0.02	0.0	0.00	0.0	0.01	0.12	0.0	0.03	0.02
22	0.01	0.16	0.0	0.0	0.0	0.00	0.0	0.01	0.00	0.0	0.14	0.24
23	0.0	0.35	0.0	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.04	0.78
24	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.36	0.66
25	0.0	0.0	0.20	0.0	0.05	0.0	0.0	0.00	0.0	0.0	0.03	0.11
26	0.01	0.0	0.0	0.01	0.14	0.0	0.0	0.00	0.0	0.0	0.00	0.04
27	0.02	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.13
28	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.00	0.0	0.0	0.00	0.11
29	0.03	0.00	0.0	0.0	0.00	0.02	0.00	0.00	0.0	0.04	0.03	0.01
30	0.17	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.04	0.13	0.09
31	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0
TOTAL	1.55	3.31	0.90	1.17	1.25	0.79	0.18	4.24	0.33	1.15	3.72	3.11
STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.190	1.510	13.318	10.297	15.833	8.103	1.681	0.009	0.235	0.309	1.034	2.581
2	2.190	1.743	12.305	9.895	15.520	7.779	1.477	0.012	0.285	0.349	1.309	2.410
3	2.043	1.737	11.655	8.824	15.942	7.588	1.116	0.016	0.335	0.363	1.767	2.333
4	1.728	1.785	11.977	9.396	17.171	7.586	0.981	0.012	0.297	0.377	1.743	2.275
5	1.890	1.770	12.422	12.421	16.771	7.527	0.914	0.012	0.246	0.392	1.419	2.247
6	1.436	1.766	11.861	9.968	14.028	7.569	0.732	0.012	0.203	0.438	1.190	2.218
7	1.036	1.780	11.044	9.212	12.565	7.131	1.056	0.012	0.161	0.500	1.122	2.190
8	1.466	1.854	9.872	8.763	12.522	7.014	0.449	0.016	0.143	0.550	1.466	2.190
9	1.752	1.824	8.623	9.281	13.672	7.606	0.493	0.023	0.134	0.584	11.979	2.145
10	1.712	1.901	8.002	10.088	14.342	6.108	0.734	0.027	0.126	0.567	3.905	2.290
11	1.831	1.759	7.748	11.886	14.302	5.384	0.423	0.019	0.102	0.567	3.180	2.124
12	1.670	1.717	7.479	11.748	15.095	5.050	0.328	0.016	0.087	0.676	3.836	1.882
13	1.649	1.697	7.924	10.245	14.317	4.838	0.372	0.016	0.081	0.934	2.852	1.877
14	1.662	1.842	7.014	10.992	12.925	4.520	0.297	0.664	0.088	1.121	2.288	2.233
15	3.600	1.746	6.519	11.516	12.480	4.089	0.268	0.834	0.157	1.121	2.584	2.217
16	3.272	1.654	6.604	10.514	11.621	3.927	0.240	0.376	0.212	1.014	2.411	2.100
17	2.342	2.621	6.471	9.640	11.516	3.617	0.219	3.995	0.212	0.929	2.370	1.951
18	2.116	7.139	5.964	9.496	11.249	3.359	0.116	2.480	0.235	0.908	3.117	1.974
19	2.025	20.502	5.587	9.202	11.165	3.335	0.079	2.991	0.311	0.993	4.338	1.972
20	1.898	45.964	5.577	8.818	14.440	3.344	0.056	2.488	0.440	1.143	4.002	1.847
21	1.984	76.350	5.598	7.896	11.955	3.069	0.050	2.049	0.568	1.122	3.689	1.670
22	1.996	30.700	5.868	7.862	11.443	2.795	0.045	1.661	0.585	1.034	4.489	1.857
23	1.982	74.690	5.852	7.660	11.861	2.813	0.036	1.230	0.517	1.013	3.785	2.382
24	1.778	37.989	5.965	7.759	11.351	2.551	0.027	0.942	0.423	0.992	3.522	10.509
25	1.810	23.849	6.601	8.063	10.902	2.435	0.023	0.708	0.349	0.950	3.516	6.113
26	1.759	19.670	6.235	8.192	11.123	2.091	0.019	0.595	0.297	0.929	3.158	3.962
27	2.244	15.672	6.212	8.408	10.647	1.859	0.016	0.445	0.246	0.929	3.144	3.015
28	2.039	13.796	7.193	9.423	9.873	2.020	0.016	0.498	0.246	0.950	2.685	3.382
29	1.654	13.014	8.841	12.182	9.436	2.161	0.016	0.468	0.270	0.992	2.621	6.150
30	1.765		9.544	14.760	8.878	1.940	0.016	0.408	0.283	1.013	2.653	3.722
31	1.611		9.001		8.705		0.012	0.299		1.013		2.689
MEAN	1.940	14.139	8.222	9.813	12.678	4.640	0.397	0.753	0.262	0.799	3.039	2.855
INCHES	0.106	0.725	0.451	0.521	0.695	0.246	0.022	0.041	0.014	0.044	0.161	0.157
STA AV	0.254	0.539	0.509	0.625	2.283	1.550	0.206	0.053	0.024	0.058	0.127	0.144

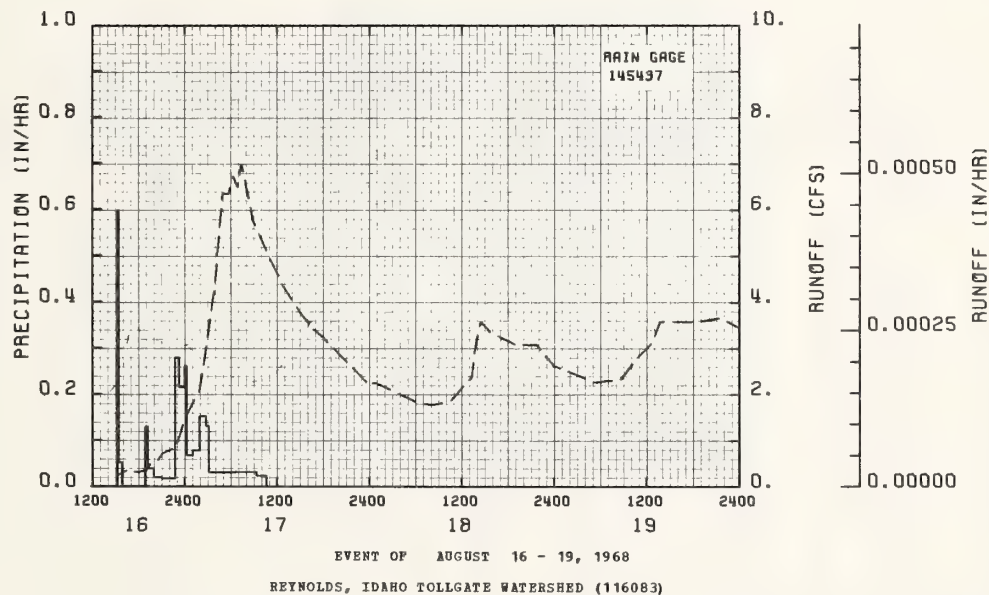
NOTES: To convert CFS to IN/DAY, multiply by 0.001769.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 16 - 19, 1968												
	PG 145437			PG 145437								
8-16	0.01	0.000	8-16	1516	0.0	0.0	8-16	1516	0.26	0.0		
				1527	0.6000	0.11		1632	0.36	0.0		
				1550	0.0522	0.13		1724	0.31	0.0		
				1850	0.0	0.13		1856	0.36	0.0		
				1913	0.1304	0.18		1926	0.48	0.0		
WATERSHED CONDITIONS:				1959	0.0391	0.21		2030	0.58	0.0		
Generally sagebrush range-				2100	0.0197	0.23		2106	0.73	0.0		
land. Vegetation consists				2246	0.0170	0.26		2250	0.85	0.0001		
predominately of big sage-				2318	0.2813	0.41		2400	1.47	0.0002		
brush, little sagebrush,				2400	0.2143	0.56	8-17	156	2.08	0.0005		
rabbitbrush, snowberry,												
blue bunch wheatgrass,			8-17	16	0.2625	0.63		312	3.49	0.0008		
Idaho fescue, and squirrel-				101	0.0667	0.68		356	4.33	0.0010		
tail grass. 25% of area				155	0.0778	0.75		456	6.34	0.0014		
has 0-25% cover, 15% of area				246	0.1529	0.88		544	6.34	0.0018		
has 26-50% cover, 15% of				309	0.1304	0.93		618	6.72	0.0021		
area has 51-75% cover and												
45% of area has 76-100%				627	0.0303	1.03		654	6.47	0.0024		
cover.				917	0.0318	1.12		724	6.98	0.0026		
				1036	0.0228	1.15		854	5.75	0.0033		
								1110	4.90	0.0042		
								1248	4.33	0.0048		
								1508	3.73	0.0055		
								1638	3.42	0.0059		
								1806	3.20	0.0063		
								2026	2.79	0.0068		
								2400	2.19	0.0075		
							8-18	36	2.25	0.0076		
								614	1.81	0.0084		
								752	1.76	0.0086		
								1038	1.87	0.0090		
								1250	2.30	0.0093		
								1318	2.36	0.0094		
								1342	2.92	0.0095		
								1426	3.57	0.0097		
								1540	3.34	0.0100		
								1858	3.06	0.0108		

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.

1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 16 - 19, 1968 (CONTINUED)										
							8-18	2142	3.06	0.0114
								2400	2.60	0.0119
							8-19	510	2.25	0.0128
								702	2.30	0.0131
								828	2.30	0.0133
								1108	2.86	0.0138
								1244	3.13	0.0142
								1346	3.57	0.0145
								1804	3.57	0.0156
								2130	3.65	0.0165
								2400	3.42	0.0172

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	17.90															
	O	0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137	1.760															
STA AV	P	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31	0.0															
	O	0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144	3.593															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time				Interval		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	2-21	0.067	2-21	0.092	2-21	0.152	2-18	0.432												
MAXIMUMS FOR PERIOD OF RECORD																													
		2-21	0.013	2-21	0.010	2-21	0.020	2-21	0.047	1-28	0.076	1-28	0.126	1-28	0.236	1-27	0.606												
		1968		1968		1968		1968		1967		1967		1967		1967													

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.11-6. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gages. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.09	0.03	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10														
	2	0.0	0.13	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.18	0.0														
	3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0														
	4	0.0	0.00	0.0	0.23	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04														
	5	0.04	0.0	0.22	0.41	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0														
	7	0.01	0.0	0.02	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.09	0.0														
	8	0.06	0.0	0.0	0.0	0.0	0.24	0.01	0.0	0.0	0.0	0.67	0.0														
	9	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0														
	10	0.23	0.0	0.0	0.0	0.09	0.0	0.0	0.19	0.0	0.0	0.03	0.08														
	11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.14														
	12	0.0	0.09	0.0	0.0	0.52	0.0	0.0	0.08	0.0	0.08	0.39	0.0														
	13	0.0	0.09	0.09	0.0	0.19	0.0	0.0	0.07	0.0	0.19	0.01	0.00														
	14	0.0	0.0	0.27	0.0	0.05	0.0	0.06	0.75	0.0	0.19	0.0	0.05														
	15	0.24	0.04	0.0	0.05	0.02	0.0	0.0	0.0	0.06	0.04	0.12	0.13														
	16	0.12	0.0	0.00	0.02	0.05	0.0	0.0	0.39	0.0	0.01	0.17	0.07														
	17	0.0	0.28	0.36	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0														
	18	0.0	0.42	0.0	0.14	0.0	0.0	0.20	0.01	0.0	0.23	0.20	0.0														
	19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.27	0.0	0.0	0.04	0.01														
	20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.03	0.01														
	21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.02	0.0														
	22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.11	0.11														
	23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.61														
	24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.22	0.36														
	25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.02	0.12														
	26	0.0	0.0	0.0	0.05	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.07														
	27	0.03	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00														
	28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01														
	29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.05	0.0	0.0														
	30	0.20	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.18														
	31	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0														
	TOTAL	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31														
	STA AV	1.19	2.76	1.09	1.12	1.74	0.35	0.14	3.14	0.30	0.97	2.80	2.31														

NOTES: Values are Thiessen Weighted average 'Actual' amounts from 3 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.01	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
2	0.0	0.09	0.01	0.10	0.0	0.0	0.0	0.00	0.0	0.0	0.16	0.0
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0
4	0.0	0.00	0.0	0.21	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04
5	0.04	0.0	0.18	0.29	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0
8	0.03	0.0	0.0	0.0	0.0	0.21	0.01	0.0	0.0	0.0	0.60	0.0
9	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0
10	0.08	0.0	0.0	0.0	0.07	0.0	0.0	0.19	0.0	0.0	0.03	0.04
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.08	0.06
12	0.0	0.06	0.0	0.0	0.49	0.0	0.0	0.08	0.0	0.07	0.32	0.0
13	0.0	0.07	0.04	0.0	0.18	0.0	0.0	0.07	0.0	0.16	0.01	0.00
14	0.0	0.0	0.11	0.0	0.05	0.0	0.04	0.74	0.0	0.17	0.0	0.02
15	0.11	0.03	0.0	0.01	0.02	0.0	0.0	0.0	0.06	0.04	0.05	0.06
16	0.05	0.0	0.00	0.01	0.05	0.0	0.0	0.38	0.0	0.01	0.07	0.04
17	0.0	0.27	0.12	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.00
18	0.0	0.42	0.0	0.02	0.0	0.0	0.0	0.16	0.01	0.0	0.11	0.13
19	0.0	0.30	0.0	0.01	0.06	0.0	0.0	0.26	0.0	0.0	0.01	0.01
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.01	0.01
21	0.0	0.72	0.0	0.01	0.27	0.0	0.0	0.0	0.21	0.0	0.01	0.0
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.06	0.08
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.47
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.10	0.28
25	0.0	0.0	0.10	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.07
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04
27	0.01	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0
30	0.07	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.13
31	0.02	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
TOTAL	0.56	2.60	0.56	0.77	1.65	0.31	0.12	3.07	0.30	0.90	2.08	1.61
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.09	0.02	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
2	0.0	0.11	0.01	0.11	0.0	0.0	0.0	0.00	0.0	0.0	0.17	0.0
3	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.29	0.0
4	0.0	0.00	0.0	0.22	0.05	0.01	0.0	0.03	0.0	0.0	0.03	0.04
5	0.04	0.0	0.20	0.35	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
7	0.01	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0
8	0.04	0.0	0.0	0.0	0.0	0.23	0.01	0.0	0.0	0.0	0.64	0.0
9	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.02	0.0
10	0.14	0.0	0.0	0.0	0.08	0.0	0.0	0.19	0.0	0.0	0.03	0.06
11	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.0	0.05	0.09	0.10
12	0.0	0.08	0.0	0.0	0.50	0.0	0.0	0.08	0.0	0.07	0.36	0.0
13	0.0	0.08	0.06	0.0	0.19	0.0	0.0	0.07	0.0	0.17	0.01	0.00
14	0.0	0.0	0.18	0.0	0.05	0.0	0.04	0.75	0.0	0.18	0.0	0.04
15	0.17	0.03	0.0	0.02	0.02	0.0	0.0	0.0	0.06	0.04	0.08	0.09
16	0.08	0.0	0.00	0.02	0.05	0.0	0.0	0.38	0.0	0.01	0.12	0.05
17	0.0	0.27	0.22	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.00
18	0.0	0.42	0.0	0.06	0.0	0.0	0.0	0.19	0.01	0.0	0.16	0.16
19	0.0	0.30	0.0	0.02	0.06	0.0	0.0	0.26	0.0	0.0	0.03	0.01
20	0.0	0.22	0.0	0.01	0.10	0.0	0.0	0.03	0.03	0.36	0.02	0.01
21	0.0	0.72	0.0	0.02	0.28	0.0	0.0	0.0	0.21	0.0	0.01	0.0
22	0.0	0.11	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.08	0.10
23	0.0	0.30	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.55
24	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.15	0.32
25	0.0	0.0	0.11	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.01	0.10
26	0.0	0.0	0.0	0.04	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05
27	0.02	0.0	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.00
28	0.01	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.01
29	0.0	0.01	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.04	0.0	0.0
30	0.13	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.16
31	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
TOTAL	0.82	2.68	0.80	0.92	1.70	0.33	0.12	3.10	0.30	0.94	2.41	1.94
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.199	0.051	0.312	0.105	0.066	0.025	0.0	0.0	0.0	0.0	0.001	0.039
2	0.137	0.062	0.299	0.105	0.059	0.023	0.0	0.0	0.0	0.0	0.002	0.037
3	0.044	0.070	0.287	0.105	0.059	0.025	0.0	0.0	0.0	0.0	0.004	0.037
4	0.034	0.070	0.274	0.122	0.066	0.028	0.0	0.0	0.0	0.0	0.006	0.039
5	0.034	0.059	0.253	0.133	0.066	0.030	0.0	0.0	0.0	0.0	0.007	0.039
6	0.032	0.053	0.223	0.121	0.062	0.030	0.0	0.0	0.0	0.0	0.011	0.039
7	0.032	0.050	0.214	0.116	0.059	0.032	0.0	0.0	0.0	0.0	0.022	0.037
8	0.037	0.050	0.205	0.116	0.056	0.034	0.0	0.0	0.0	0.0	0.034	0.034
9	0.042	0.050	0.189	0.116	0.056	0.032	0.0	0.0	0.0	0.0	0.037	0.034
10	0.044	0.047	0.174	0.116	0.071	0.025	0.0	0.0	0.0	0.0	0.034	0.037
11	0.042	0.044	0.166	0.121	0.086	0.021	0.0	0.0	0.0	0.0	0.042	0.039
12	0.039	0.044	0.159	0.121	0.078	0.019	0.0	0.0	0.0	0.0	0.047	0.037
13	0.039	0.044	0.152	0.116	0.066	0.017	0.0	0.0	0.0	0.0	0.042	0.034
14	0.048	0.044	0.152	0.116	0.059	0.017	0.0	0.0	0.0	0.0	0.039	0.037
15	0.053	0.044	0.146	0.116	0.053	0.016	0.0	0.0	0.0	0.0	0.037	0.039
16	0.050	0.037	0.146	0.116	0.050	0.009	0.0	0.0	0.0	0.0	0.034	0.039
17	0.047	0.103	0.146	0.116	0.050	0.004	0.0	0.0	0.0	0.0	0.037	0.039
18	0.044	0.524	0.139	0.110	0.050	0.002	0.0	0.0	0.0	0.0	0.048	0.039
19	0.044	0.329	0.133	0.105	0.060	0.002	0.0	0.0	0.0	0.0	0.056	0.039
20	0.044	0.813	0.121	0.105	0.063	0.002	0.0	0.0	0.0	0.001	0.053	0.037
21	0.050	1.129	0.116	0.105	0.053	0.001	0.0	0.0	0.0	0.001	0.047	0.034
22	0.059	0.518	0.116	0.100	0.050	0.0	0.0	0.0	0.0	0.001	0.042	0.034
23	0.059	0.986	0.110	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.042	0.050
24	0.056	0.577	0.110	0.095	0.044	0.0	0.0	0.0	0.0	0.001	0.042	0.292
25	0.053	0.522	0.116	0.095	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.159
26	0.047	0.454	0.110	0.090	0.047	0.0	0.0	0.0	0.0	0.001	0.039	0.091
27	0.044	0.388	0.105	0.086	0.044	0.0	0.0	0.0	0.0	0.001	0.039	0.077
28	0.042	0.355	0.105	0.082	0.042	0.0	0.0	0.0	0.0	0.001	0.039	0.073
29	0.039	0.340	0.105	0.073	0.037	0.0	0.0	0.0	0.0	0.001	0.039	0.066
30	0.039		0.105	0.070	0.034	0.0	0.0	0.0	0.0	0.001	0.039	0.062
31	0.039		0.105		0.032		0.0	0.0		0.001		0.062
MEAN	0.0521	0.2710	0.1644	0.1063	0.0553	0.0132	0.0	0.0	0.0	0.0002	0.0334	0.0566
INCHES	0.126	0.611	0.396	0.248	0.133	0.031	0.0	0.0	0.0	0.001	0.078	0.137
STA AV	0.643	0.758	0.452	0.561	0.608	0.308	0.042	0.0	0.0	0.004	0.072	0.144

NOTES: To convert CFS to IN/DAY, multiply by 0.077784.

REYNOLDS, IDAHO SUMMIT WATERSHED (048077)

LOCATION: Owyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO SUMMIT WATERSHED (048077)									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04	8.82		
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0	0.093		
STA AV	P	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04	0.0		
	O	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.042	0.0	0.0	0.0	0.0	0.043		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968	8-14	0.125	8-14	0.033	8-14	0.033	8-17	0.038	8-16	0.038	8-13	0.043	8-12	0.043	8-9	0.083
MAXIMUMS FOR PERIOD OF RECORD																
	8-14	0.125	8-14	0.033	8-14	0.033	8-17	0.038	8-16	0.038	8-13	0.043	8-12	0.043	8-9	0.083
	1968		1968		1968		1968		1968		1968		1968		1968	

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Precipitation: 'Computed Actual' amounts from 1 rain gage. For long-time precipitation records, see U.S. Weather Bureau records at Boise, Idaho, 50 miles N.E. of watershed.

1968 DAILY PRECIPITATION (inches)													
REYNOLDS, IDAHO SUMMIT WATERSHED (048077)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17	
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0	
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.36	0.0	
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.04	0.0	
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03	
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0	
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0	
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0	
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0	
19	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.26	0.0	0.0	0.03	0.0	
20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0	
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.19	
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08	
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.0	0.38	1.10	1.04	
STA AV	0.37	0.58	0.13	0.19	0.86	0.38	0.03	3.76	0.00	0.38	1.10	1.04	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049X61. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 1 yr (1968) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.29	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.09
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.37	0.58	0.13	0.19	0.83	0.38	0.03	3.71	0.0	0.38	1.01	0.85
STA AV												

NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

1968 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.03	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.32	0.0
4	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.03	0.0	0.01	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.32	0.0
9	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.03	0.0
10	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.04	0.03
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.03
12	0.0	0.09	0.0	0.0	0.05	0.0	0.0	0.02	0.0	0.08	0.05	0.0
13	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.06	0.0	0.14	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.04	0.0	0.08	0.0	0.0
15	0.05	0.02	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.06
16	0.05	0.0	0.03	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.03	0.0
17	0.0	0.17	0.01	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.36	0.0	0.05	0.0	0.0	0.12	0.0
19	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.26	0.0	0.0	0.03	0.0
20	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.05	0.0	0.08	0.0	0.0
21	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.13
23	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06
25	0.0	0.0	0.07	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03
26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.03
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.08
31	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.37	0.58	0.13	0.19	0.85	0.38	0.03	3.75	0.0	0.38	1.05	0.93
STA AV												

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

1968 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.377	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.334	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0231	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.083	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.042	0.0	0.0	0.0	0.0

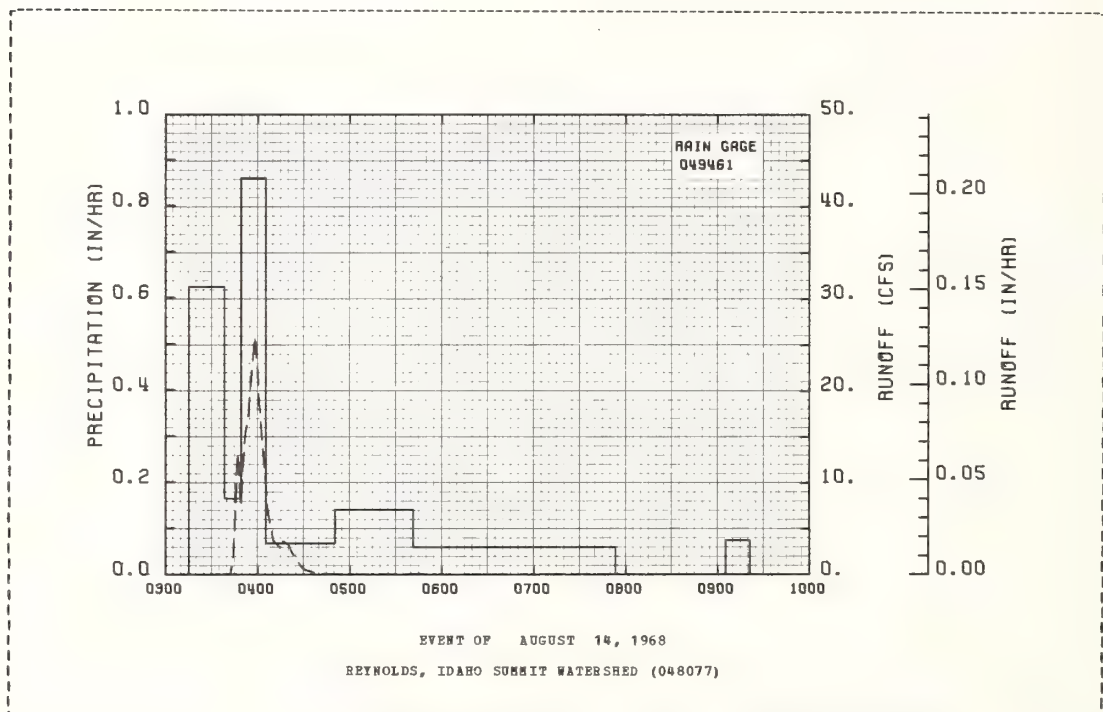
NOTES: To convert CFS to IN/DAY, multiply by 0.077784.

1968 SELECTED RUNOFF EVENT REYNOLDS, IDAHO SUMMIT WATERSHED (048077)											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 14, 1968											
RG 049461			RG 049461								
8-14	0.0	0.0	8-14	315	0.0	0.0	8-14	341	0.0	0.0	
				338	0.6261	0.24		342	0.07	0.0	
				349	0.1636	0.27		343	1.06	0.0	
				405	0.8625	0.50		344	2.16	0.0001	
				450	0.0667	0.55		345	5.29	0.0005	
WATERSHED CONDITIONS:				541	0.1412	0.67		346	10.84	0.0011	
Sagebrush rangeland with al-				753	0.0591	0.80		347	13.31	0.0020	
most exclusive cattle grazing				905	0.0	0.80		348	10.00	0.0029	
in early spring and late				921	0.0750	0.82		349	7.51	0.0037	
fall. Numerous barren								350	11.42	0.0044	
ridges. Vegetation consists											
largely of big sagebrush,								351	13.31	0.0053	
cheatgrass, Sandberg blue-								352	15.38	0.0064	
grass, bluebunch wheatgrass,								354	17.67	0.0092	
and squirreltail grass.								356	21.96	0.0122	
25% of the area has a vege-								358	25.86	0.0163	
tative cover of 0-25% and											
75% of the area has a vege-								400	21.96	0.0204	
tative cover of 25-50%.								401	18.48	0.0219	
								402	16.12	0.0232	
								404	12.34	0.0256	
								406	7.51	0.0271	
								408	5.48	0.0282	
								410	3.70	0.0289	
								414	2.92	0.0300	
								415	3.70	0.0303	
								420	3.17	0.0317	
								422	2.47	0.0321	
								424	1.88	0.0325	
								426	1.39	0.0327	
								428	0.83	0.0329	
								430	0.56	0.0330	
								432	0.38	0.0331	
								436	0.18	0.0332	
								440	0.09	0.0332	
								444	0.05	0.0332	
								448	0.02	0.0332	

NOTES: To convert CFS to IN/HR, multiply by 0.004838.

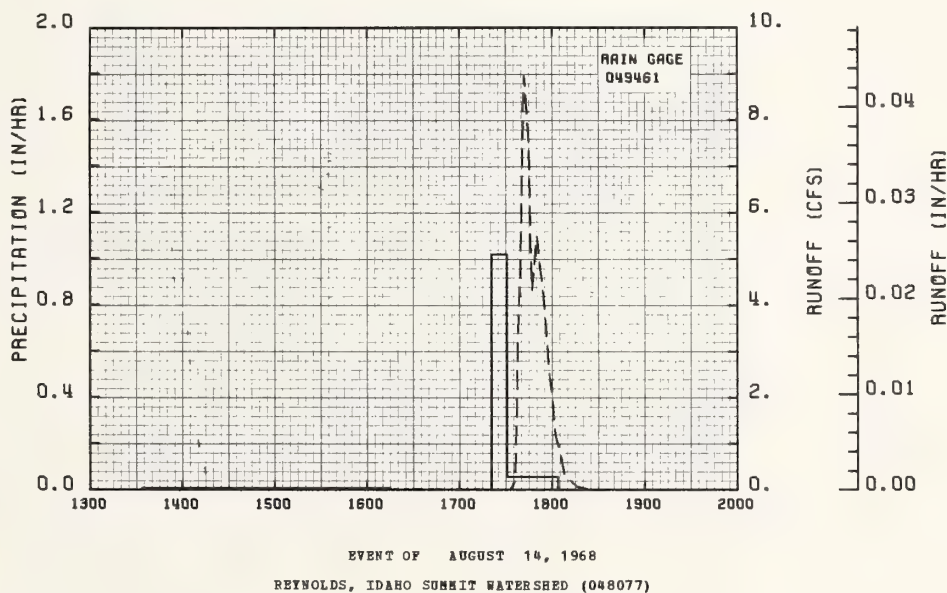
1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF AUGUST 14, 1968 (CONTINUED)								
				8-14			452	0.01
							456	0.0
							511	0.0
							512	0.01
							516	0.04
								0.0332
							518	0.07
							529	0.06
							536	0.06
							540	0.09
							544	0.06
								0.0333
							548	0.04
							552	0.02
							556	0.01
							600	0.0
							622	0.0
								0.0333
							629	0.01
							632	0.0
							700	0.0
							702	0.01
							704	0.04
								0.0333
							706	0.05
							712	0.05
							716	0.04
							718	0.02
							722	0.01
								0.0333
							724	0.0
							728	0.0
							940	0.0
								0.0333

NOTES: To convert CFS to IN/HR, multiply by 0.004838.



1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 14, 1968											
RG 049461											
8-14	0.82	0.034	8-14	1334	0.0	0.0	8-14	1733	0.0	0.0	
				1444	0.0086	0.01		1736	0.20	0.0	
				1615	0.0066	0.02		1737	1.32	0.0001	
				1721	0.0	0.02		1738	3.30	0.0003	
				1731	1.0200	0.19		1740	5.48	0.0010	
WATERSHED CONDITIONS:											
Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.											
				1804	0.0545	0.22		1741	7.51	0.0015	
								1742	8.94	0.0023	
								1745	7.51	0.0043	
								1746	5.29	0.0048	
								1747	4.29	0.0052	
								1750	5.48	0.0064	
								1754	4.29	0.0080	
								1756	3.56	0.0086	
								1758	2.58	0.0091	
								1800	2.06	0.0095	
								1802	1.18	0.0097	
								1806	0.68	0.0100	
								1808	0.32	0.0101	
								1812	0.18	0.0102	
								1816	0.06	0.0102	
								1820	0.02	0.0102	
								1824	0.0	0.0102	

NOTES: To convert CFS to IN/HR, multiply by 0.004838.



1968 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 16 - 17, 1968										
RG 049461			RG 049461							
8-16	0.0		8-16	1904	0.0	0.0	8-17	16	0.0	0.0
8-17		0.0		1940	0.2833	0.17		18	0.01	0.0
				2124	0.0058	0.18		20	0.06	0.0
				2314	0.0164	0.21		22	0.09	0.0
				2400	0.1435	0.32		26	0.13	0.0
WATERSHED CONDITIONS:										
Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg blue grass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 25-50%.			8-17	40	0.1200	0.40		38	0.15	0.0001
				122	0.2571	0.58		40	0.22	0.0001
				220	0.1759	0.75		46	0.27	0.0002
				306	0.1696	0.88		56	0.32	0.0004
				422	0.0711	0.97		100	0.45	0.0005
				506	0.0545	1.01		102	0.68	0.0006
				606	0.1000	1.11		104	1.00	0.0007
				740	0.0574	1.20		106	1.62	0.0009
				1006	0.0123	1.23		108	1.97	0.0012
				1231	0.0248	1.29		112	2.69	0.0019
								116	3.43	0.0029
								118	3.85	0.0034
								124	3.56	0.0052
								132	3.85	0.0076
								142	3.70	0.0107
								144	3.17	0.0112
								148	2.69	0.0121
								156	2.26	0.0137
								202	2.06	0.0148
								208	2.06	0.0158
								212	2.26	0.0165
								214	2.47	0.0169
								216	3.04	0.0174
								220	3.43	0.0184
								224	3.85	0.0196
								233	4.29	0.0225
								235	3.99	0.0232
								236	3.30	0.0235
								240	2.92	0.0245
								244	2.69	0.0254
								246	2.36	0.0258
								248	2.58	0.0262
								251	2.26	0.0268
								258	2.69	0.0282
								259	2.36	0.0284
								302	2.69	0.0290
								306	2.36	0.0298
								312	2.47	0.0310
								316	2.26	0.0318
								318	2.36	0.0321
								322	2.26	0.0328
								324	2.06	0.0332
								326	1.79	0.0335
								328	1.54	0.0338
								332	1.62	0.0343
								336	1.39	0.0348
								340	1.12	0.0352
								344	0.88	0.0355
								348	0.68	0.0358
								350	0.52	0.0359
								352	0.41	0.0360
								400	0.29	0.0362
								404	0.20	0.0363
								408	0.15	0.0364
								410	0.18	0.0364
								412	0.13	0.0364
								416	0.09	0.0364
								419	0.13	0.0364
								422	0.09	0.0364
								426	0.10	0.0364
								429	0.08	0.0364
								439	0.09	0.0365
								448	0.10	0.0366
								452	0.08	0.0366
								456	0.06	0.0366
								500	0.04	0.0366
								504	0.03	0.0366
								520	0.02	0.0366
								532	0.02	0.0366
								544	0.09	0.0367

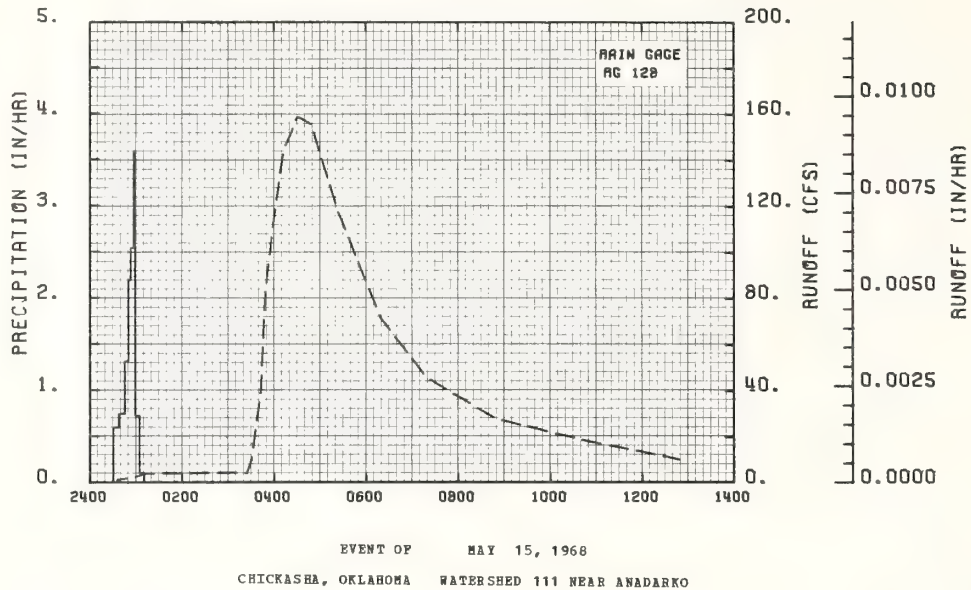
NOTES: To convert CFS to IN/HR, multiply by 0.004838.

1968 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.500	1.400	1.600	1.100	0.900	18.000	13.000	0.0	0.0	0.100	0.400	2.500
2	0.500	1.200	1.500	1.400	0.800	5.000	3.600	0.0	0.0	0.0	2.200	2.100
3	0.500	1.100	1.400	1.800	0.700	2.600	0.900	0.0	0.0	0.0	1.000	1.900
4	0.500	1.100	1.300	1.200	0.700	1.800	0.700	0.0	19.000	0.0	0.600	1.800
5	0.500	1.100	1.400	1.100	0.700	1.400	0.600	0.0	0.400	0.700	0.600	1.600
6	0.500	1.100	1.400	1.000	0.600	1.200	0.600	0.0	0.300	0.300	0.500	1.600
7	0.300	1.100	1.400	0.900	1.100	1.200	0.600	0.0	0.100	0.0	0.500	1.600
8	0.300	1.100	1.600	1.000	0.700	1.000	0.500	0.0	0.0	0.400	0.600	1.500
9	0.400	1.100	1.500	1.000	15.000	0.700	0.400	0.0	0.0	34.000	0.600	1.500
10	0.800	1.100	1.400	1.000	3.100	0.800	0.300	0.0	0.0	2.300	0.600	1.400
11	0.700	1.100	1.500	0.900	2.400	0.600	0.200	0.0	0.0	1.200	0.600	1.500
12	1.200	1.100	1.900	1.100	1.700	0.500	0.200	0.0	0.0	0.900	0.600	1.400
13	2.000	1.200	1.900	1.800	2.700	0.400	0.200	0.0	0.0	0.700	0.600	1.200
14	0.800	1.400	1.500	1.400	2.500	0.300	7.300	0.0	0.0	1.000	1.200	1.200
15	0.800	1.600	1.400	1.200	24.000	26.000	12.000	0.900	0.0	1.000	13.000	1.200
16	0.800	1.600	1.300	1.100	2.900	9.500	1.700	0.0	0.0	0.500	3.200	1.200
17	0.900	1.600	1.300	1.200	2.000	2.000	1.000	0.0	0.0	0.400	2.300	1.300
18	2.700	1.500	1.300	1.200	1.400	1.300	0.600	0.0	0.0	0.500	1.700	2.500
19	3.100	1.400	1.400	3.300	1.300	0.900	0.500	0.0	0.0	0.500	1.300	2.000
20	1.700	1.300	1.900	1.800	1.300	0.600	0.500	0.0	0.0	0.500	1.200	1.600
21	1.700	1.400	2.700	1.500	1.800	0.500	0.500	0.0	0.0	0.400	1.100	1.700
22	1.900	1.800	2.100	2.600	1.800	0.500	0.300	0.0	0.0	0.400	1.000	1.600
23	1.600	2.000	2.000	1.800	1.300	0.400	0.100	0.0	0.700	0.400	1.000	1.300
24	1.400	2.200	1.700	1.400	1.300	0.400	0.100	0.0	3.300	0.300	0.900	1.400
25	1.300	2.500	1.600	1.200	1.800	0.500	0.0	0.0	0.200	0.400	0.900	1.600
26	1.300	2.100	1.500	1.100	1.400	0.400	0.0	0.0	0.0	0.400	10.000	1.600
27	1.200	1.700	1.400	1.100	1.200	0.300	0.0	0.0	0.0	0.300	5.900	2.400
28	1.200	3.000	1.400	1.100	1.100	0.300	0.0	0.0	0.0	0.400	6.000	2.700
29	1.600	1.700	1.400	1.000	0.900	0.200	0.0	0.0	0.0	0.400	3.600	2.500
30	2.900		1.400	0.900	0.800	0.100	0.0	0.0	0.0	0.400	2.700	2.200
31	1.600		1.300		9.400		0.0	0.0		0.300		1.500
MEAN	1.2000	1.5030	1.5610	1.3400	2.8810	2.6470	1.4970	0.0290	0.8000	1.5840	2.2130	1.7130
INCHES	0.053	0.062	0.069	0.058	0.128	0.114	0.066	0.001	0.034	0.070	0.095	0.076
STA AV	0.085	0.089	0.098	0.138	0.154	0.065	0.045	0.019	0.063	0.036	0.084	0.073

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-FT, multiply by 1.386. Yearly mean discharge, 1.6 CFS. Yearly discharge, 0.826 inches.

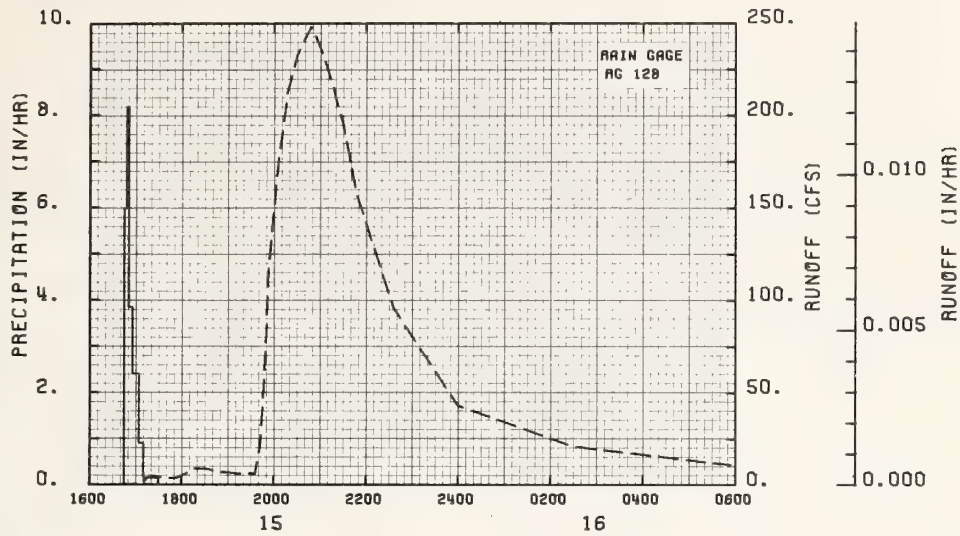
1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 15, 1968												
5-15	RG 128 0.0	0.000	5-15	RG 128	0.0	0.0	5-15	36	1.50	0.0		
				30	0.6000	0.07		42	1.80	0.0		
				41	0.7500	0.12		54	2.20	0.0		
				45	0.7500	0.17		106	3.40	0.0		
				50	1.3200	0.28		112	4.00	0.0		
WATERSHED CONDITIONS:				53	2.2000	0.39		242	4.40	0.0004		
From a 1967 survey; sowed				57	2.5500	0.56		324	4.00	0.0006		
crop - 14%; row crop - 4%;				59	3.6000	0.68		330	10.20	0.0006		
alfalfa - 2%; pasture and				104	0.7200	0.74		342	38.80	0.0009		
range - 72%; and miscel-				110	0.1000	0.75		348	82.30	0.0013		
laneous - 8%.												
								400	116.40	0.0025		
								412	143.60	0.0040		
								430	158.60	0.0067		
								448	155.10	0.0095		
								524	116.40	0.0144		
								618	71.50	0.0194		
								718	45.40	0.0229		
								848	27.50	0.0262		
								1042	18.20	0.0288		
								1248	9.90	0.0306		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00005962. For 30-day antecedent P and Q, see table on previous page.



1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(inches)
EVENT OF JUNE 15 - 16, 1968									
6-15	RG 128	0.000	6-15	RG 128	0.0	0.0	6-15	1648	0.0
				1648	6.0015	0.30		1700	0.0
				1651	8.1995	0.71		1712	0.0
				1656	3.8402	1.03		1718	0.0
				1704	2.3998	1.35		1742	0.0001
				1710	0.9001	1.44		1754	0.0001
				1730	0.1500	1.49		1806	0.0002
								1812	0.0002
								1818	0.0003
								1830	0.0004
								1842	0.0005
								1912	0.0007
								1936	0.0008
								1942	0.0009
								1948	0.0011
								1954	0.0016
								2006	0.0034
								2018	0.0057
								2030	0.0084
								2048	0.0127
								2106	0.0170
								2130	0.0221
								2148	0.0252
								2236	0.0312
								2400	0.0369
								230	0.0416
								554	0.0447

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00005962. For 30-day antecedent P and Q, see table on previous page.



EVENT OF JUNE 15 - 16, 1968
CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 29, T. 7 N., R. 9 W., lat 35 deg. 03 min., long. 98 deg. 10 min., 3 miles East and 1 mile South of Anadarko, Okla., at section line road bridge.

AREA: 25660.00 acres 40.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	2.99	1.43	1.14	2.15	6.61	1.96	3.93	0.97	4.40	2.61	4.77	0.98	33.94											
	O	0.040	0.061	0.070	0.048	0.287	0.076	0.024	0.0	0.011	0.013	0.036	0.057	0.723											
STA AV	P	0.92	1.09	1.17	2.85	3.94	2.89	2.15	2.62	3.92	1.77	2.60	0.88	26.80											
	O	0.053	0.065	0.070	0.105	0.128	0.028	0.005	0.003	0.015	0.011	0.034	0.042	0.561											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		5- 9	0.028	5- 9	0.028	5- 9	0.054	5- 9	0.112	5- 9	0.128	5- 9	0.145	5- 9	0.161	5- 9		5- 9	0.145	5- 9	0.161	5- 9	0.236		
MAXIMUMS FOR PERIOD OF RECORD																									
		5- 9	0.028	5- 9	0.028	5- 9	0.054	5- 9	0.112	5- 9	0.128	5- 9	0.145	5- 9	0.161	5- 9		5- 9	0.145	5- 9	0.161	5- 9	0.236		
		1968		1968		1968		1968		1968		1968		1968		1968		1968		1968		1968			

NOTES: Watershed conditions: From a 1967 survey: sowed crop - 8%; row crop - 4%; alfalfa - 2%; pasture and range - 71%; and miscellaneous - 15%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.11-4 and 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Aug. 1962. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA				WATERSHED 131 NEAR ANADARKO			
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.02	0.0	0.20	0.0	0.69	1.52	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	
	3	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	1.72	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.0	0.0	
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.0	0.0	
	6	0.04	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.08	0.0	0.14	0.09	0.0	0.0	0.0	0.0	0.0	0.0	
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	9	0.0	0.0	0.0	0.0	2.61	0.0	0.0	0.0	0.0	1.54	0.0	0.0	
	10	0.0	0.0	0.10	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.08	0.0	
	11	0.04	0.0	0.21	0.0	0.26	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
	12	0.0	0.14	0.0	0.40	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	13	0.0	0.12	0.0	0.0	0.50	0.0	0.11	0.16	0.0	0.0	0.0	0.0	
	14	0.0	0.19	0.0	0.0	0.0	0.0	1.60	0.12	0.0	0.0	0.09	0.0	
	15	0.0	0.0	0.0	0.0	0.57	1.14	0.53	0.31	0.04	0.0	1.29	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06	0.0	0.0	
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	
	18	1.46	0.02	0.13	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	
	19	0.10	0.0	0.07	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	20	0.14	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	21	0.14	0.27	0.0	0.14	0.52	0.0	0.0	0.0	0.0	0.14	0.0	0.12	
	22	0.11	0.23	0.12	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.67	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.05	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	1.64	0.01	
	27	0.0	0.41	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.44	0.67	
	28	0.10	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.29	0.0	
	29	0.71	0.0	0.0	0.0	0.02	0.0	0.13	0.01	0.0	0.0	0.0	0.0	
	30	0.15	0.0	0.0	0.0	0.02	0.01	0.0	0.28	0.0	0.0	0.09	0.0	
	31	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		2.99	1.43	1.14	2.15	6.61	1.96	3.93	0.97	4.40	2.61	4.77	0.98	
STA AV		0.92	1.09	1.17	2.85	3.94	2.89	2.15	2.62	3.92	1.77	2.60	0.88	

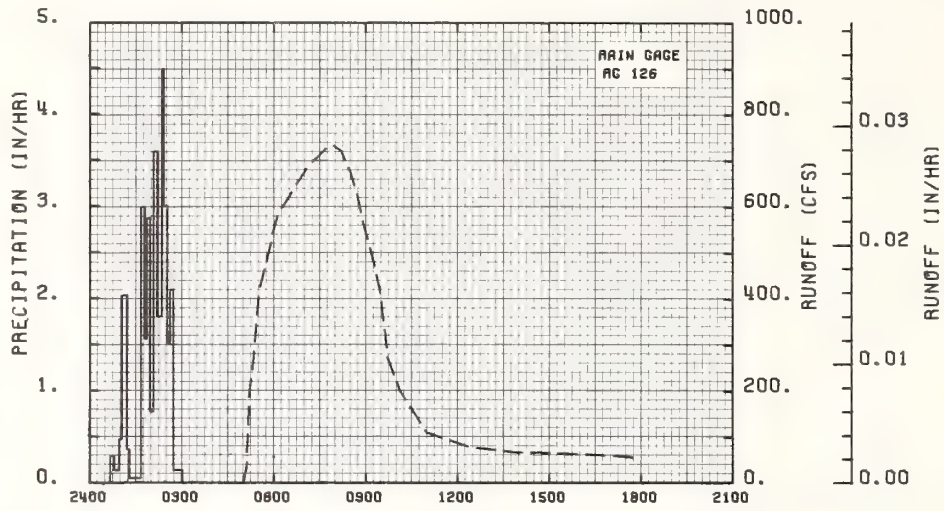
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 33.94 inches. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs)													CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.60	2.50	2.50	1.70	0.70	21.00	4.20	0.0	0.0	0.0	0.10	3.00		
2	0.50	1.80	2.30	2.70	0.70	6.40	4.10	0.0	0.0	0.0	0.40	2.60		
3	0.50	1.70	1.90	3.60	0.70	4.00	0.80	0.0	0.0	0.0	0.60	2.20		
4	0.40	1.70	1.90	2.10	0.60	3.30	0.50	0.0	9.80	0.0	0.30	2.10		
5	0.50	1.70	2.00	1.70	0.60	2.70	0.40	0.0	0.20	0.40	0.30	2.00		
6	0.50	1.70	2.10	1.60	0.50	2.00	0.40	0.0	0.0	0.10	0.20	1.90		
7	0.10	1.70	2.10	1.50	1.50	1.90	0.40	0.0	0.0	0.0	0.20	1.70		
8	0.10	1.60	2.30	1.40	0.90	1.80	0.40	0.0	0.0	0.0	0.30	1.60		
9	0.10	1.60	2.20	1.20	150.00	1.60	0.30	0.0	0.0	9.70	0.30	1.70		
10	0.30	1.60	2.00	1.20	21.00	1.50	0.20	0.0	0.0	0.60	0.30	1.60		
11	0.60	1.50	2.40	1.20	10.00	1.30	0.10	0.0	0.0	0.30	0.30	1.90		
12	0.40	1.40	3.00	1.50	13.00	0.90	0.0	0.0	0.0	0.30	0.30	2.00		
13	0.40	1.60	3.20	2.40	15.00	0.70	0.0	0.0	0.0	0.30	0.30	1.30		
14	0.30	1.80	2.50	1.50	11.00	0.50	2.70	0.0	0.0	0.20	0.30	1.30		
15	0.40	2.20	2.00	1.20	26.00	10.00	8.10	0.0	0.0	0.20	4.10	1.40		
16	0.40	2.70	1.90	1.20	6.40	11.00	1.60	0.0	0.0	0.20	1.60	1.60		
17	0.80	2.70	1.80	1.20	4.50	2.70	0.60	0.0	0.0	0.20	0.90	1.80		
18	3.50	2.20	1.80	1.20	3.60	1.60	0.40	0.0	0.0	0.10	0.80	2.00		
19	5.30	2.20	2.50	4.70	3.00	1.20	0.30	0.0	0.0	0.10	0.70	1.70		
20	2.00	2.10	3.20	2.10	2.90	1.00	0.20	0.0	0.0	0.10	0.70	1.50		
21	2.10	2.00	4.70	2.00	4.50	0.80	0.10	0.0	0.0	0.20	0.70	1.80		
22	2.50	2.00	4.00	3.70	5.40	0.70	0.10	0.0	0.0	0.20	0.70	1.90		
23	1.50	2.50	3.60	2.10	3.20	0.70	0.0	0.0	0.0	0.10	0.70	1.40		
24	1.30	3.00	2.90	0.80	2.70	0.60	0.0	0.0	2.10	0.10	0.70	1.40		
25	1.20	4.50	2.50	1.30	4.00	0.70	0.0	0.0	0.20	0.10	0.70	1.70		
26	1.20	3.00	2.30	1.20	3.30	0.60	0.0	0.0	0.0	0.10	4.70	1.80		
27	1.10	2.70	2.10	1.10	2.70	0.40	0.0	0.0	0.0	0.10	4.90	3.60		
28	1.10	4.80	2.10	1.00	2.20	0.30	0.0	0.0	0.0	0.10	6.20	3.40		
29	3.40	2.80	2.00	0.90	1.70	0.20	0.0	0.0	0.0	0.10	3.90	3.00		
30	7.10		1.90	0.80	1.60	0.10	0.0	0.0	0.0	0.10	2.70	2.60		
31	3.00		1.90		5.40		0.0	0.0		0.10		2.10		
MEAN	1.3940	2.2520	2.4390	1.7270	9.9770	2.7400	0.8360	0.0	0.4100	0.4550	1.2970	1.9870		
INCHES	0.040	0.061	0.070	0.048	0.287	0.076	0.024	0.0	0.011	0.013	0.036	0.057		
STA AV	0.053	0.065	0.070	0.105	0.128	0.028	0.005	0.003	0.015	0.011	0.034	0.042		

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0009276. To convert discharge in inches to AC-FT, multiply by 2,138. Yearly mean discharge, 2.1 CFS. Yearly discharge, 0.722 inches.

1968 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED 131 NEAR ANADARKO			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 8 - 9, 1968										
5- 9	RG 126		5- 9	RG 126			5- 8	2400	0.90	0.0
5- 8	0.0			40	0.0	0.0		200	0.80	0.0001
		0.001		48	0.3000	0.04	5- 9	206	1.20	0.0001
				57	0.1333	0.06		218	1.30	0.0001
				102	0.4800	0.10		348	1.10	0.0002
				112	2.0400	0.44				
WATERSHED CONDITIONS:										
From a 1967 survey; sowed										
crop - 8%; row crop - 4%;										
alfalfa - 2%; pasture and										
range - 71%; and miscel-										
laneous - 15%.										
				117	0.3600	0.47		500	1.40	0.0003
				140	0.0522	0.49		506	34.30	0.0004
				147	3.0000	0.84		512	206.20	0.0009
				152	1.5600	0.97		518	249.70	0.0018
				157	2.8800	1.21		530	417.30	0.0044
				204	0.7714	1.30		542	468.70	0.0078
				211	3.6000	1.72		606	581.80	0.0159
				220	1.8000	1.99		636	635.00	0.0277
				224	4.5000	2.29		706	687.80	0.0405
				231	3.0000	2.64		730	713.70	0.0513
				237	1.5000	2.79		742	726.70	0.0569
				243	2.1000	3.00		754	732.60	0.0625
				301	0.1333	3.04		812	718.00	0.0709
								830	670.60	0.0790
								842	629.40	0.0840
								854	565.10	0.0886
								912	494.20	0.0947
								924	431.70	0.0983
								930	399.10	0.0999
								942	273.50	0.1025
								1006	200.70	0.1062
								1100	107.90	0.1116
								1224	76.80	0.1166
								1354	65.40	0.1207
								1606	61.90	0.1261
								1742	55.20	0.1297

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865. For 30-day antecedent P and Q, see table on previous page.



CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA

LOCATION: Line Creek Watershed above U.S. Highway 81 bridge at Chickasha, Grady and Caddo Counties, Okla.; tributary to Washita; Red River Basin. GAGING STATION--NE1/4 sec. 29, T. 7 N., R. 7 W., lat. 35 deg. 03 min., long. 97 deg. 58 min., Northwest edge of Chickasha, Okla., at U.S. Highway 81 bridge.

AREA: 33300.00 acres 52.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA				WATERSHED 411 AT CHICKASHA					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	2.52	1.24	1.49	1.82	4.89	2.19	3.20	1.35	3.68	2.30	4.64	0.85	30.17	
	O	0.001	0.0	0.002	0.001	0.006	0.015	0.013	0.0	0.009	0.029	0.003	0.0	0.079	
STA AV	P	0.81	0.99	1.22	2.71	3.25	3.00	1.97	2.92	3.78	1.44	2.46	0.88	25.44	
	O	0.003	0.004	0.005	0.071	0.023	0.028	0.012	0.058	0.033	0.006	0.036	0.007	0.286	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		10- 9	0.004	10- 9	0.004	10- 9	0.008	10- 9	0.016	10- 9	0.021	10- 9	0.026	10- 9	0.028
MAXIMUMS FOR PERIOD OF RECORD															
		8-28	0.060	8-28	0.053	8-28	0.096	8-28	0.204	8-28	0.274	8-28	0.302	8-28	0.316
		1965		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 29%; row crop - 4%; alfalfa - 7%; pasture and range - 51%; and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.12-4 and 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 13 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Sept. 1962. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA			WATERSHED 411 AT CHICKASHA				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.04	0.0	0.18	0.0	0.62	1.33	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	
3	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.85	0.0	0.0	
6	0.03	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.05	0.0	0.20	0.52	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.0	1.28	0.0	0.0	
10	0.0	0.0	0.16	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
11	0.02	0.0	0.22	0.0	0.27	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
12	0.0	0.11	0.0	0.34	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.09	0.0	0.0	0.44	0.0	0.03	0.31	0.0	0.0	0.0	0.0	
14	0.0	0.19	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.10	0.0	
15	0.0	0.0	0.0	0.0	0.50	0.81	0.24	0.73	0.04	0.0	1.27	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.11	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	
18	1.31	0.0	0.30	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
19	0.16	0.0	0.25	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.07	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.14	0.22	0.0	0.14	0.53	0.0	0.0	0.0	0.0	0.06	0.0	0.15	
22	0.07	0.18	0.10	0.32	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.49	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0	
27	0.05	0.38	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.46	0.62	
28	0.02	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.27	0.0	
29	0.50	0.0	0.0	0.0	0.04	0.0	0.09	0.0	0.0	0.0	0.0	0.0	
30	0.15	0.0	0.0	0.0	0.01	0.0	0.0	0.30	0.0	0.0	0.09	0.0	
31	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.52	1.24	1.49	1.82	4.89	2.19	3.20	1.35	3.68	2.30	4.64	0.85	
STA AV	0.81	0.99	1.22	2.71	3.25	3.00	1.97	2.92	3.78	1.44	2.46	0.88	

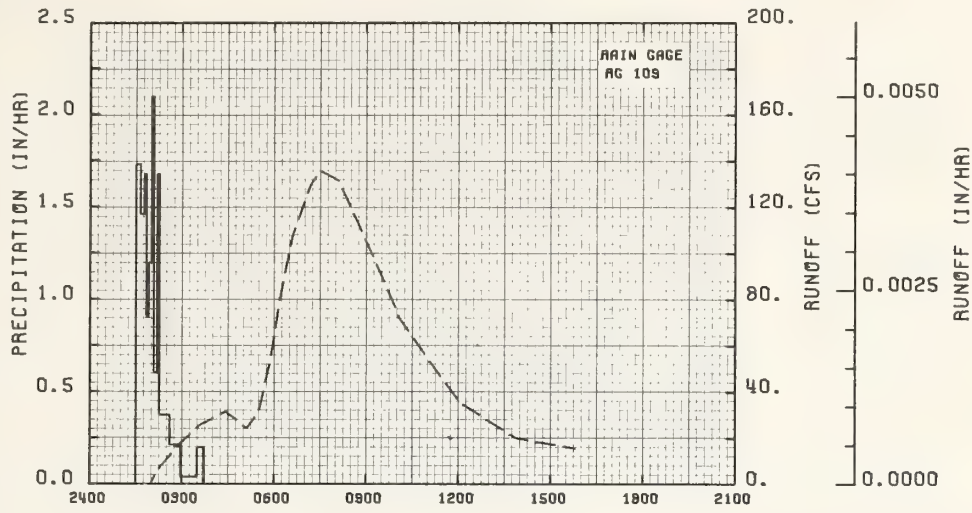
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 30.17 inches. Precipitation values are a Thiessen weighted average of 13 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs)													CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	0.0	0.0	0.0	0.0	0.0	5.300	11.000	0.0	0.0	0.0	0.0	0.0				
2	0.0	0.0	0.0	0.0	0.0	0.500	6.100	0.0	0.0	0.0	0.100	0.0				
3	0.0	0.0	0.0	0.100	0.0	0.0	0.100	0.0	0.100	0.0	0.0	0.0				
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.900	0.0	0.0	0.0				
5	0.0	0.0	0.0	0.0	0.0	0.100	0.0	0.0	3.500	0.600	0.0	0.0				
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
7	0.0	0.0	0.0	0.0	0.100	0.300	0.0	0.0	0.0	0.0	0.0	0.0				
8	0.0	0.0	0.0	0.0	0.0	0.800	0.0	0.0	0.0	0.0	0.0	0.0				
9	0.0	0.0	0.0	0.0	0.800	0.700	0.0	0.0	0.0	36.000	0.0	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.300	0.0	0.0				
11	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
12	0.0	0.0	0.500	0.100	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
13	0.0	0.0	0.0	0.0	0.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
14	0.0	0.100	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0				
15	0.0	0.0	0.0	0.0	1.000	12.000	0.100	0.600	0.0	0.0	0.0	0.0				
16	0.0	0.0	0.0	0.0	1.600	1.300	0.0	0.0	0.0	0.100	0.0	0.0				
17	0.0	0.0	0.0	0.0	0.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
18	0.900	0.0	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
19	0.400	0.0	0.400	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
20	0.0	0.0	0.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
21	0.0	0.0	0.300	0.0	0.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
22	0.100	0.0	0.500	0.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
23	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	1.900	0.0	0.0	0.0				
24	0.0	0.200	0.0	0.0	0.0	0.0	0.0	0.0	2.600	0.0	0.0	0.0				
25	0.0	0.0	0.0	0.0	1.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
26	0.0	0.0	0.0	0.0	0.300	0.0	0.0	0.0	0.0	0.0	1.800	0.0				
27	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.800	0.0				
28	0.0	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
29	0.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
30	0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
31	0.0	0.0	0.0	0.0	0.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
MEAN	0.0550	0.0210	0.0770	0.0270	0.2650	0.7000	0.5680	0.0190	0.4000	1.2900	0.1230	0.0				
INCHES	0.001	0.0	0.002	0.001	0.006	0.015	0.013	0.0	0.009	0.029	0.003	0.0				
STA AV	0.003	0.004	0.005	0.071	0.023	0.028	0.012	0.058	0.033	0.006	0.036	0.007				

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0007148. To convert discharge in inches to AC-FT, multiply by 2,775. Yearly mean discharge, 0.3 CFS. Yearly discharge, 0.075 inches.

1968			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 411 AT CHICKASHA		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF OCTOBER 9, 1968											
10- 9	RG 109		10- 9	RG 109			10- 9				
	0.0	0.0		130	0.0	0.0		200	0.0	0.0	
				139	1.7333	0.26		206	3.50	0.0	
				146	1.4571	0.43		218	7.60	0.0	
				151	1.6800	0.57		254	17.20	0.0002	
				155	0.9000	0.63		336	25.90	0.0006	
WATERSHED CONDITIONS:											
From a 1967 survey; sowed				201	1.2000	0.75		424	31.30	0.0013	
crop - 29%; row crop - 4%;				205	2.1000	0.89		506	24.00	0.0019	
alfalfa - 7%; pasture and				211	0.6000	0.95		530	31.70	0.0022	
range - 51%; and miscel-				216	1.6800	1.09		554	55.20	0.0027	
laneous - 9%.				237	0.3714	1.22		612	80.70	0.0033	
			257	0.2100	1.29			636	107.60	0.0044	
			330	0.0364	1.31			712	130.30	0.0065	
			342	0.2000	1.35			730	135.40	0.0077	
								806	131.00	0.0101	
								912	99.20	0.0139	
								1006	71.30	0.0162	
								1106	52.40	0.0180	
								1206	34.60	0.0193	
								1354	19.60	0.0208	
								1548	15.20	0.0218	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002978. For 30-day antecedent P and Q, see table on previous page.



EVENT OF OCTOBER 9, 1968
CHICKASHA, OKLAHOMA WATERSHED #111 AT CHICKASHA

CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER

LOCATION: West Bitter Creek Watershed above U.S. Highway 62 bridge, East of Chickasha in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 29, T. 7 N., R. 6 W., lat. 35 deg. 03 min., long. 97 deg. 51 min., 4 miles East of Chickasha, Okla., at U.S. highway 62 bridge.

APEA: 38020.00 acres 59.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	2.32	1.01	1.57	1.95	4.56	2.28	3.43	2.40	3.69	2.23	4.16	0.88	30.48											
	Q	0.031	0.038	0.053	0.091	0.135	0.122	0.049	0.029	0.101	0.096	0.106	0.047	0.898											
STA AV	P	0.86	1.00	1.72	3.06	2.92	2.94	1.93	3.65	3.49	1.43	2.39	0.94	26.33											
	Q	0.043	0.044	0.089	0.350	0.099	0.075	0.022	0.203	0.170	0.026	0.103	0.050	1.275											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1968		10- 9	0.010	10- 9	0.010	10- 9	0.019	10- 9	0.041	10- 9	0.055	10- 9	0.066	10- 9	0.073	5-25	0.094								
MAXIMUMS FOR PERIOD OF RECORD																									
		4-12	0.086	4-12	0.086	4-12	0.169	4-12	0.460	4-12	0.606	4-12	0.670	4-12	0.784	4- 9	0.896								
		1967		1967		1967		1967		1967		1967		1967		1967									

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 21%; row crop - 5%; alfalfa - 3%; pasture and range - 63%; and miscellaneous - 8%. For maps of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.13-4 and 1965, USDA Misc. Pub. 1216, p. 69.13-11. Precipitation data obtained from a Thiessen weighted average of 15 gages on the Watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1962. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.05	0.0	0.15	0.0	1.02	1.75	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0	
3	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.95	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.98	0.01	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.92	0.0	0.0	
6	0.02	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.07	0.0	0.14	0.14	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	1.07	0.0	0.0	
10	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.08	0.0	
11	0.04	0.0	0.24	0.0	0.10	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
12	0.0	0.09	0.0	0.35	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
13	0.0	0.06	0.0	0.0	0.44	0.0	0.45	0.52	0.0	0.0	0.0	0.0	
14	0.0	0.16	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.18	0.0	
15	0.0	0.0	0.0	0.0	0.34	0.30	0.09	1.55	0.02	0.0	1.32	0.0	
16	0.0	0.0	0.0	0.0	0.01	0.19	0.0	0.0	0.0	0.21	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	
18	1.32	0.0	0.32	0.80	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.10	
19	0.10	0.0	0.34	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.03	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
21	0.18	0.20	0.0	0.15	0.44	0.0	0.01	0.0	0.0	0.02	0.0	0.20	
22	0.09	0.14	0.05	0.29	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.34	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.01	1.17	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	
27	0.11	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.57	
28	0.01	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.20	0.0	
29	0.38	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.03		0.0	0.0	0.0	0.02	0.0	0.27	0.0	0.0	0.06	0.0	
31	0.01		0.0		0.47		0.02	0.05		0.0		0.0	
TOTAL	2.32	1.01	1.57	1.95	4.56	2.28	3.43	2.40	3.69	2.23	4.16	0.88	
STA AV	0.86	1.00	1.72	3.06	2.92	2.94	1.93	3.65	3.49	1.43	2.39	0.94	

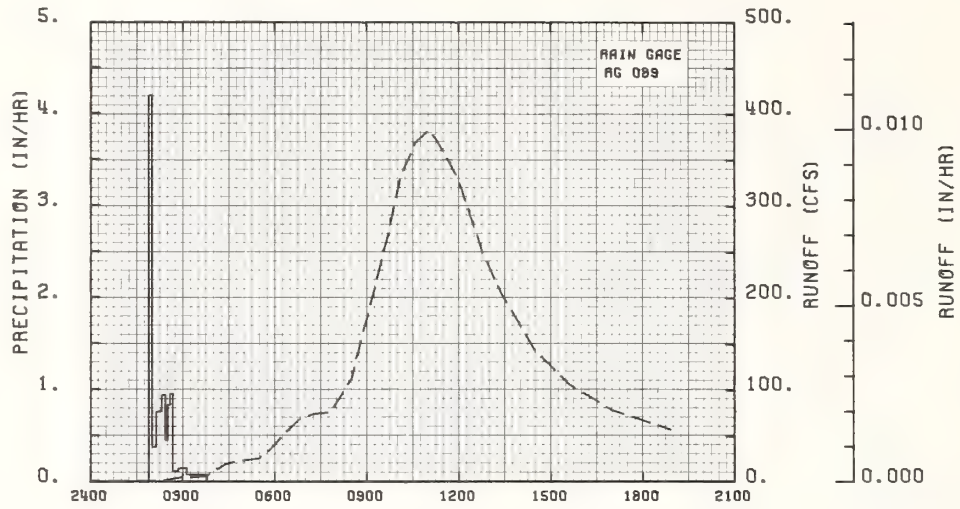
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 30.48 inches. Precipitation values are a Thiessen weighted average of 15 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.90	1.80	1.60	2.50	1.80	37.00	15.00	0.0	0.0	0.90	0.60	4.30
2	1.10	1.30	1.60	2.50	1.70	31.00	23.00	0.0	0.0	0.90	1.00	3.40
3	1.10	1.10	1.40	2.80	2.10	12.00	3.30	0.0	0.0	0.70	3.00	2.80
4	1.00	1.00	1.40	2.50	1.30	11.00	1.30	0.0	45.00	0.70	1.50	3.50
5	1.10	1.00	1.50	2.20	1.00	17.00	0.70	0.0	11.00	2.30	1.10	3.50
6	0.90	0.90	1.50	2.10	0.70	23.00	0.60	0.0	4.30	1.20	0.80	3.40
7	0.90	0.90	1.60	2.10	1.00	8.90	0.40	0.0	3.30	1.20	0.70	3.30
8	0.70	0.90	1.60	2.20	1.70	5.60	0.20	0.0	2.70	1.10	0.60	3.40
9	0.90	0.90	1.60	2.00	5.90	3.40	0.10	0.0	0.90	101.00	0.30	2.80
10	0.90	1.10	1.50	1.90	5.20	2.80	0.10	0.0	0.10	16.00	0.30	2.20
11	0.90	3.30	2.50	2.00	2.60	2.60	0.0	0.0	0.0	4.70	0.20	2.10
12	1.10	3.10	2.50	2.20	1.90	1.90	0.0	0.0	0.0	2.80	0.20	1.90
13	0.90	3.10	2.60	2.60	1.90	1.50	0.0	0.0	0.0	2.00	0.20	1.60
14	0.90	3.10	3.30	2.50	10.00	1.30	19.00	0.0	0.0	1.50	0.30	1.60
15	0.90	3.10	4.00	2.00	24.00	1.30	4.80	41.00	0.0	1.30	35.00	1.70
16	0.90	3.10	2.70	1.90	8.80	6.40	4.30	4.20	0.0	1.10	12.00	1.70
17	1.10	3.00	1.80	1.90	5.40	6.30	1.70	0.50	0.0	1.10	4.70	1.80
18	2.60	2.70	1.70	2.00	4.50	2.00	0.60	0.10	0.0	1.10	2.10	1.90
19	6.80	2.70	6.00	50.00	4.00	1.20	1.60	0.0	0.0	1.20	1.30	2.20
20	3.70	2.60	4.80	12.00	3.10	0.70	0.60	0.0	0.0	1.10	0.80	1.70
21	2.60	2.60	7.20	7.90	2.70	0.40	0.20	0.0	0.0	1.00	0.80	1.90
22	2.20	2.50	6.20	7.40	3.10	0.30	0.0	0.0	0.0	1.00	0.80	2.20
23	1.90	2.50	3.40	6.00	2.60	0.30	0.0	0.0	0.10	0.90	0.80	2.00
24	1.50	2.30	2.60	4.50	1.90	0.20	0.0	0.0	78.00	0.90	0.80	1.90
25	1.30	2.30	2.20	3.80	52.00	0.30	0.0	0.0	11.00	0.80	0.80	1.90
26	1.30	2.10	2.10	3.50	23.00	0.20	0.0	0.0	2.60	0.80	7.90	2.00
27	1.50	2.00	2.70	3.10	8.30	0.10	0.0	0.0	1.00	0.70	33.00	2.50
28	1.50	2.00	2.70	3.00	6.60	0.10	0.0	0.0	0.40	0.70	32.00	3.30
29	1.30	1.70	2.60	2.50	9.40	0.0	0.0	0.0	0.60	0.70	19.00	2.70
30	1.80		2.80	1.90	9.60	0.0	0.0	0.0	1.00	0.70	7.20	2.20
31	2.60		2.80		7.70		0.0	0.0		0.70		1.80
MEAN	1.5740	2.0930	2.7260	4.8500	6.9520	5.9600	2.5000	1.4770	5.4000	4.9290	5.6600	2.4260
INCHES	0.031	0.038	0.053	0.091	0.135	0.122	0.049	0.029	0.101	0.096	0.106	0.047
STA AV	0.043	0.044	0.089	0.350	0.099	0.075	0.022	0.203	0.170	0.026	0.103	0.050

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0006260. To convert discharge in inches to AC-FT, multiply by 3,168. Yearly mean discharge, 3.9 CFS. Yearly discharge, 0.886 inches.

1968 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF OCTOBER 8 - 9, 1968												
RG	089		RG	089								
10- 9	0.0		10- 9	153	0.0	0.0	10- 8	2400	1.10	0.0		
10- 8		0.001		200	4.2000	0.49	10- 9	154	1.10	0.0001		
				208	0.3750	0.54		218	1.70	0.0001		
				219	0.7636	0.68		254	4.80	0.0002		
				226	0.9429	0.79		342	5.80	0.0003		
WATERSHED CONDITIONS:												
From a 1967 survey: sowed												
crop - 21%; row crop - 5%;												
alfalfa - 3%; pasture and												
range - 63%; and miscel-												
laneous - 8%.												
				230	0.4500	0.82		400	11.30	0.0004		
				235	0.8400	0.89		424	20.10	0.0006		
				240	0.9600	0.97		454	23.40	0.0009		
				251	0.1091	0.99		530	26.10	0.0013		
				307	0.1500	1.03		548	34.50	0.0015		
				348	0.0732	1.08		618	52.70	0.0021		
								648	68.90	0.0029		
								718	74.60	0.0038		
								748	75.50	0.0048		
								830	113.10	0.0065		
								848	153.20	0.0075		
								912	203.20	0.0094		
								942	269.90	0.0125		
								1006	331.80	0.0156		
								1036	369.50	0.0202		
								1100	381.90	0.0241		
								1118	369.50	0.0270		
								1154	333.70	0.0325		
								1206	316.50	0.0342		
								1248	246.50	0.0393		
								1324	203.20	0.0428		
								1430	141.00	0.0477		
								1536	104.90	0.0512		
								1700	77.10	0.0545		
								1854	56.20	0.0578		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608. For 30-day antecedent P and Q, see table on previous page.



CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 7 N., R. 9 W., lat. 35 deg. 05 min., long. 98 deg. 11 min., 2-1/2 miles East of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 25020.00 acres 39.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P 2.40	1.26	0.74	2.16	5.19	2.35	3.97	1.58	4.41	2.34	4.90	1.00	32.30	
	O 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	P 0.77	0.99	1.13	2.73	3.55	3.05	2.02	2.52	3.87	1.53	2.32	0.83	25.32	
	O 0.0	0.002	0.006	0.022	0.030	0.002	0.0	0.001	0.0	0.0	0.003	0.0	0.067	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
Maximum Discharge Date Rate 1 Hour Date Vol. 2 Hours Date Vol. Maximum Volume for Selected Time Interval 6 Hours Date Vol. 12 Hours Date Vol. 1 Day Date Vol. 2 Days Date Vol. 8 Days Date Vol.														
1968	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0
MAXIMUMS FOR PERIOD OF RECORD														
5-11	0.004	5-11	0.004	5-11	0.007	5-11	0.021	5-11	0.038	5-11	0.061	5-11	0.087	5-11
1964		1964		1964		1964		1964		1964		1964		1964

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 27%; row crop - 6%; alfalfa - 10%; pasture and range - 33%; and miscellaneous - 24%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. No runoff, so maximum volumes could not be computed. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO	
1968	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01	0.0	0.16	0.0	0.73	1.55	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.16	0.0	
3	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	1.90	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0	
6	0.02	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.10	0.0	0.08	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	1.18	0.0	0.0	0.0	0.0	0.0	1.41	0.0	0.0	
10	0.0	0.0	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
11	0.02	0.0	0.11	0.0	0.29	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.11	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.07	0.0	0.0	0.44	0.0	0.04	0.41	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.19	0.0	0.0	0.0	0.0	1.50	0.02	0.0	0.0	0.0	0.11	0.0	
15	0.0	0.0	0.0	0.0	0.92	1.40	0.68	0.74	0.03	0.0	0.0	1.35	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	
18	1.33	0.01	0.06	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	
19	0.10	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.14	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.16	0.23	0.0	0.13	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
22	0.08	0.23	0.10	0.49	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	1.50	0.03	
27	0.01	0.38	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.48	
28	0.05	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.25	0.0	
29	0.44	0.0	0.0	0.0	0.03	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.05	0.0	0.0	0.0	0.01	0.15	0.0	0.30	0.0	0.0	0.0	0.06	0.0	
31	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	2.40	1.26	0.74	2.16	5.19	2.35	3.97	1.58	4.41	2.34	4.90	1.00		
STA AV	0.77	0.99	1.13	2.73	3.55	3.05	2.02	2.52	3.87	1.53	2.32	0.83		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 32.30 inches. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed.

CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH

LOCATION: Little Washita River Watershed above U.S. highway 81 bridge South of Chickasha in Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 32, T. 6 N., R. 7 W., lat. 34 deg. 57 min., long. 97 deg. 57 min., 5-1/2 miles South of Chickasha, Okla., at U.S. highway 81 bridge.

AREA: 132990.00 acres 207.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	2.92	1.74	1.85	2.27	6.38	2.02	3.76	0.81	4.25	2.58	4.41	1.03	34.02															
	O	0.065	0.088	0.136	0.120	0.217	0.294	0.090	0.012	0.093	0.104	0.089	0.078	1.386															
STA AV	P	0.95	1.08	1.41	2.84	3.91	2.77	2.11	2.57	3.80	1.83	2.46	0.85	26.58															
	O	0.071	0.072	0.092	0.147	0.230	0.115	0.037	0.052	0.057	0.041	0.110	0.058	1.083															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1968		5-31	0.039	5-31	0.038	5-31	0.072	5-31	0.149	5-31	0.188	5-31	0.224	5-31	0.242	5-31	0.285												
MAXIMUMS FOR PERIOD OF RECORD																													
		5-10	0.056	5-10	0.055	5-10	0.108	5- 9	0.253	5- 9	0.316	5- 9	0.365	5- 9	0.476	5- 6	0.532												
		1964		1964		1964		1964		1964		1964		1964		1964													

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 12%; row crop - 3%; alfalfa - 3%; pasture and range - 66%; and miscellaneous - 16%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.15-4 and 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 36 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH														
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
	1	0.0	0.16	0.0	0.23	0.0	0.75	1.68	0.0	0.0	0.0	0.0	0.0															
	2	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0															
	3	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	1.58	0.0	0.0	0.0															
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.0	0.0															
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0															
	6	0.03	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	7	0.0	0.0	0.04	0.0	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0															
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	9	0.0	0.0	0.0	0.0	1.31	0.0	0.0	0.0	0.0	1.40	0.0	0.0															
	10	0.0	0.0	0.12	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.09	0.0															
	11	0.03	0.0	0.27	0.0	0.17	0.0	0.0	0.10	0.0	0.0	0.0	0.0															
	12	0.0	0.09	0.0	0.37	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	13	0.0	0.11	0.0	0.0	0.43	0.0	0.28	0.05	0.0	0.0	0.0	0.0															
	14	0.0	0.19	0.0	0.0	0.0	0.0	0.90	0.03	0.0	0.0	0.04	0.0															
	15	0.0	0.0	0.0	0.0	0.08	0.95	0.21	0.31	0.05	0.0	1.09	0.0															
	16	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.13	0.0	0.0															
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0															
	18	1.52	0.07	0.28	0.77	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.10															
	19	0.08	0.0	0.57	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	20	0.14	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	21	0.18	0.27	0.0	0.10	0.60	0.0	0.0	0.0	0.0	0.19	0.0	0.22															
	22	0.04	0.24	0.09	0.47	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0															
	23	0.0	0.03	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.65	0.0	0.0															
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.65	0.0	0.0	0.0															
	25	0.0	0.0	0.0	0.0	0.67	0.06	0.0	0.06	0.0	0.0	0.0	0.0															
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.56	0.0															
	27	0.41	0.58	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.49	0.71															
	28	0.02	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.25	0.0															
	29	0.18	0.0	0.0	0.0	0.11	0.0	0.10	0.03	0.0	0.0	0.0	0.0															
	30	0.21	0.0	0.0	0.0	0.32	0.04	0.0	0.22	0.0	0.0	0.10	0.0															
	31	0.08	0.0	0.0	0.0	1.91	0.03	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL		2.92	1.74	1.85	2.27	6.38	2.02	3.76	0.81	4.25	2.58	4.41	1.03															
STA AV		0.95	1.08	1.41	2.84	3.91	2.77	2.11	2.57	3.80	1.83	2.46	0.85															

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 34.02 inches. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	9.50	23.00	15.00	19.00	10.00	766.00	78.00	8.90	2.80	4.80	7.80	15.00
2	7.80	17.00	13.00	22.00	8.90	86.00	51.00	9.50	1.90	4.80	10.00	13.00
3	7.80	11.00	12.00	23.00	10.00	45.00	11.00	7.80	1.30	3.40	32.00	11.00
4	8.30	10.00	13.00	17.00	10.00	42.00	8.90	6.20	267.00	3.40	14.00	11.00
5	8.90	11.00	16.00	15.00	8.90	39.00	10.00	5.30	45.00	7.80	7.30	11.00
6	6.70	11.00	16.00	13.00	8.30	39.00	10.00	3.20	12.00	11.00	5.20	10.00
7	4.40	11.00	15.00	13.00	10.00	40.00	11.00	2.50	6.70	6.40	5.20	10.00
8	4.40	11.00	14.00	14.00	13.00	19.00	11.00	1.60	5.70	6.00	6.40	10.00
9	4.40	12.00	13.00	13.00	130.00	17.00	12.00	1.10	4.80	324.00	7.30	11.00
10	4.80	13.00	15.00	13.00	48.00	15.00	15.00	0.50	4.00	33.00	8.20	11.00
11	5.30	13.00	21.00	11.00	13.00	15.00	13.00	0.50	4.40	16.00	8.20	11.00
12	5.30	12.00	26.00	15.00	12.00	13.00	12.00	1.60	4.00	11.00	7.30	11.00
13	5.70	13.00	29.00	20.00	19.00	11.00	11.00	2.20	3.60	9.70	7.80	11.00
14	6.20	18.00	25.00	15.00	26.00	11.00	21.00	2.50	2.80	8.20	8.20	11.00
15	6.70	17.00	21.00	13.00	14.00	18.00	57.00	3.20	2.80	7.30	54.00	12.00
16	7.20	17.00	18.00	13.00	16.00	196.00	16.00	2.50	4.40	6.90	29.00	13.00
17	7.80	16.00	15.00	13.00	13.00	30.00	11.00	0.70	5.30	6.40	15.00	14.00
18	23.00	12.00	15.00	18.00	13.00	23.00	8.30	0.40	3.60	6.00	11.00	16.00
19	36.00	12.00	162.00	154.00	11.00	21.00	11.00	0.30	2.80	6.00	11.00	15.00
20	17.00	13.00	23.00	38.00	12.00	21.00	11.00	0.20	1.90	6.00	11.00	14.00
21	14.00	16.00	39.00	26.00	17.00	19.00	7.80	0.20	1.10	6.40	11.00	14.00
22	17.00	16.00	38.00	42.00	24.00	20.00	5.70	0.10	1.10	24.00	11.00	17.00
23	15.00	19.00	31.00	30.00	19.00	18.00	6.20	0.10	7.60	12.00	11.00	15.00
24	12.00	19.00	25.00	18.00	19.00	17.00	6.20	0.10	50.00	6.90	12.00	13.00
25	11.00	26.00	22.00	16.00	88.00	18.00	6.20	0.10	48.00	5.20	11.00	16.00
26	8.90	19.00	22.00	15.00	25.00	19.00	5.70	0.10	8.90	5.60	28.00	15.00
27	21.00	19.00	20.00	14.00	19.00	16.00	5.70	0.20	5.30	5.60	54.00	22.00
28	17.00	59.00	18.00	13.00	18.00	16.00	22.00	0.10	5.30	5.60	41.00	29.00
29	11.00	24.00	18.00	13.00	17.00	16.00	30.00	0.10	5.30	6.00	32.00	20.00
30	25.00		15.00	12.00	23.00	16.00	11.00	0.90	2.50	8.20	18.00	18.00
31	23.00		16.00		538.00		9.50	2.80		8.20		14.00
MEAN	11.681	16.897	24.548	22.367	39.132	54.733	16.297	2.113	17.397	18.768	16.497	14.000
INCHES	0.065	0.088	0.136	0.120	0.217	0.294	0.090	0.012	0.093	0.104	0.089	0.078
STA AV	0.071	0.072	0.092	0.147	0.230	0.115	0.037	0.052	0.057	0.041	0.110	0.058

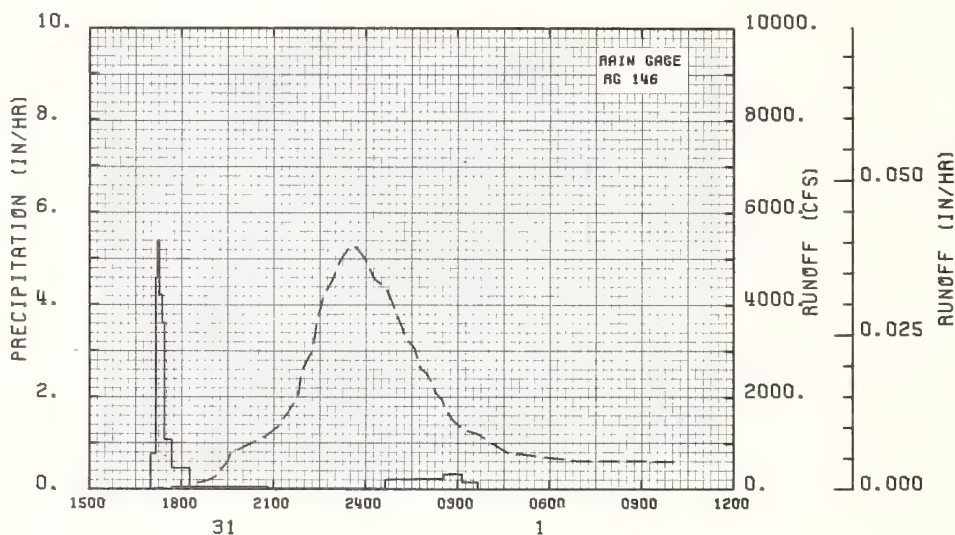
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,082. Yearly mean discharge, 21.2 CFS. Yearly discharge, 1.385 inches.

1968			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 522 NEAR MINNEKAH		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 31 - JUNE 1, 1968											
RG 146			RG 146								
5-31	0.0	0.003	5-31	1700	0.0	0.0	5-31	1706	17.80	0.0	
				1710	0.7800	0.13		1742	48.60	0.0001	
				1713	4.5997	0.36		1800	36.30	0.0002	
				1717	5.4001	0.72		1818	70.70	0.0003	
				1722	4.2003	1.07		1830	132.60	0.0005	
WATERSHED CONDITIONS:				1727	3.5996	1.37		1854	208.40	0.0010	
From a 1967 survey; sowed				1741	1.0715	1.62		1912	322.40	0.0016	
crop - 12%; row crop - 3%;				1816	0.4457	1.88		1918	431.80	0.0019	
alfalfa - 3%; pasture and				2049	0.0353	1.97		1930	595.70	0.0027	
range - 66%; and miscel-			6- 1	39	0.0615	2.01		1936	776.60	0.0032	
laneous - 16%.				135	0.2250	2.22		2012	987.50	0.0071	
				233	0.2276	2.44		2042	1139.70	0.0111	
				309	0.3333	2.64		2112	1392.20	0.0158	
				340	0.1548	2.72		2136	1822.00	0.0206	
								2148	2018.00	0.0235	
								2154	2534.60	0.0252	
								2206	2815.10	0.0292	
								2218	3067.40	0.0336	
								2224	3619.20	0.0361	
								2230	3846.60	0.0389	
								2236	4159.09	0.0419	
								2254	4519.29	0.0516	
								2312	5001.49	0.0623	
								2330	5278.69	0.0738	
								2342	5226.89	0.0816	
								2400	4967.19	0.0930	
							6- 1	18	4540.99	0.1036	
								42	4335.99	0.1168	
								100	3823.60	0.1259	
								112	3485.40	0.1313	
								118	3286.40	0.1338	
								136	3042.30	0.1409	
								148	2608.30	0.1451	
								200	2496.90	0.1489	
								212	2258.00	0.1524	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007458. For 30-day antecedent P and Q, see table on previous page.

1968	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31 - JUNE 1, 1968 (CONTINUED)										
							6- 1	218	2073.60	0.1540
								230	1917.40	0.1570
								242	1633.00	0.1596
								254	1448.30	0.1619
								312	1280.00	0.1650
								342	1174.30	0.1696
								436	789.30	0.1762
								654	597.00	0.1881
								906	595.70	0.1979
								1012	591.90	0.2028

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007458. For 30-day antecedent P and Q, see table on previous page.



EVENT OF MAY 31 - JUNE 1, 1968
CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH

CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER

LOCATION: East Bitter Creek Watershed above U.S. Highway 62 bridge at Tabler, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 27, T. 7 N., R. 6 W., lat. 35 deg. 05 min., long. 97 deg. 50 min., at Tabler, Okla., at U.S. highway 62 bridge.

AREA: 22530.00 acres 35.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	2.42	1.22	2.01	2.21	4.67	2.41	4.29	1.28	3.31	2.33	4.47	1.14	31.96															
	O	0.078	0.061	0.172	0.118	0.199	0.180	0.204	0.011	0.101	0.085	0.137	0.080	1.426															
STA AV	P	0.98	1.13	1.63	3.14	3.34	3.28	2.17	3.67	3.78	1.61	2.50	0.96	28.19															
	O	0.096	0.095	0.146	0.367	0.229	0.095	0.060	0.246	0.147	0.057	0.186	0.081	1.804															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.													
1968		7- 1	0.024	7- 1	0.022	7- 1	0.039	7- 1	0.078	7- 1	0.107	7- 1	0.118	7- 1	0.124	5-25	0.141												
MAXIMUMS FOR PERIOD OF RECORD																													
		8- 8	0.134	8- 8	0.129	8- 8	0.244	8- 7	0.472	8- 7	0.523	8- 7	0.543	4-12	0.610	4- 9	0.742												
		1965		1965		1965		1965		1965		1965		1967		1967													

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 4%; pasture and range - 84%; and miscellaneous - 6%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.16-4 and 1965, USDA Misc. Pub. 1216, p. 69.16-8. Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began July 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA		WATERSHED 512 AT TABLER					
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.12	0.0	0.17	0.0	0.90	2.22	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	
	3	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	1.15	0.0	0.0	0.0	
	5	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	1.11	0.0	0.0	
	6	0.03	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.09	0.0	0.08	0.45	0.0	0.0	0.0	0.0	0.0	0.0	
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	9	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.0	1.03	0.0	0.0	
	10	0.0	0.0	0.13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.14	0.0	
	11	0.04	0.0	0.25	0.0	0.06	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
	12	0.0	0.09	0.0	0.36	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
	13	0.0	0.06	0.0	0.0	0.38	0.0	0.93	0.17	0.0	0.0	0.0	0.0	
	14	0.0	0.17	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.22	0.0	
	15	0.0	0.0	0.0	0.0	0.13	0.16	0.05	0.86	0.04	0.0	1.33	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.15	0.0	0.0	
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	
	18	1.58	0.0	0.17	0.69	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.25	
	19	0.10	0.0	0.81	0.23	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
	20	0.04	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	21	0.17	0.26	0.0	0.22	0.43	0.0	0.0	0.0	0.0	0.04	0.0	0.25	
	22	0.06	0.13	0.05	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.01	1.22	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.37	0.0	
	27	0.39	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.59	
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.23	0.0	
	29	0.09	0.0	0.0	0.0	0.09	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
	30	0.12		0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.06	0.0	
	31	0.0		0.0		0.65		0.06	0.02		0.0		0.0	
TOTAL		2.62	1.22	2.01	2.21	4.67	2.41	4.29	1.28	3.31	2.33	4.47	1.14	
STA AV		0.98	1.13	1.63	3.14	3.34	3.28	2.17	3.67	3.78	1.61	2.50	0.96	

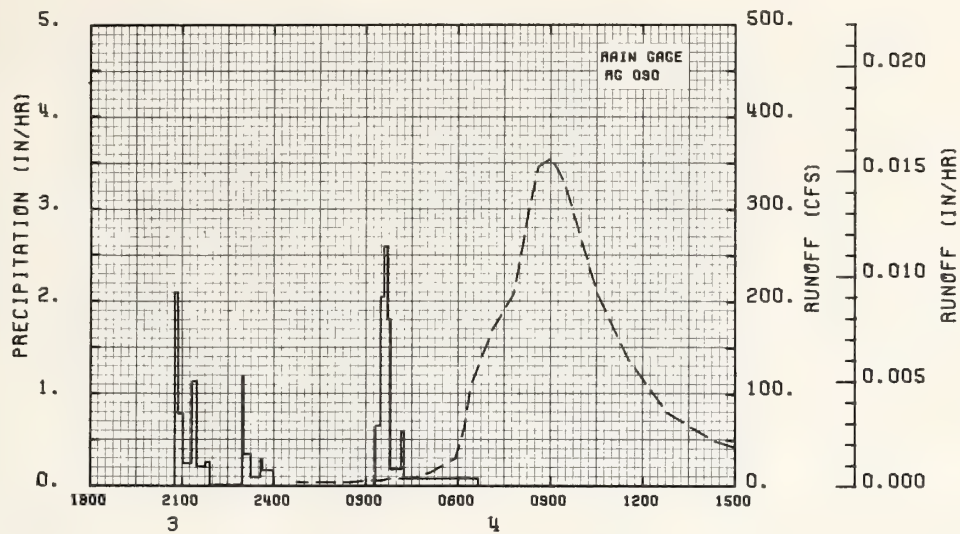
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 31.96 inches. Precipitation values are a Thiessen weighted average of 31 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.600	2.400	1.900	2.900	2.300	40.000	88.000	0.500	0.200	0.300	0.800	3.500
2	1.600	2.000	1.800	4.300	2.400	17.000	27.000	0.400	0.100	0.300	1.300	3.000
3	1.500	1.800	1.600	4.300	2.400	6.400	4.000	0.400	0.100	0.200	2.700	2.500
4	1.400	1.800	1.700	3.400	2.300	4.900	2.500	0.300	71.000	0.200	1.500	2.300
5	1.400	1.800	1.900	2.700	2.200	9.200	2.100	0.300	3.400	8.200	1.300	2.300
6	1.300	1.700	1.900	2.700	1.600	7.600	2.000	0.200	1.200	2.400	1.200	2.200
7	1.200	1.700	1.700	2.800	7.600	25.000	1.800	0.200	0.800	0.900	1.100	2.100
8	1.200	1.700	1.600	2.700	4.700	6.400	1.700	0.200	0.600	0.700	1.100	2.000
9	1.200	1.700	1.800	2.500	9.900	4.300	1.500	0.200	0.500	43.000	1.300	2.000
10	1.200	1.700	2.000	2.400	6.700	3.400	1.200	0.200	0.400	3.300	1.300	2.000
11	1.200	1.600	2.500	2.400	4.400	3.300	1.200	0.200	0.400	1.600	1.300	2.100
12	1.600	1.600	4.000	2.900	3.900	3.000	1.000	0.200	0.300	1.400	1.300	2.300
13	1.700	1.900	3.800	4.400	7.900	2.400	22.000	0.200	0.300	1.300	1.200	1.900
14	1.700	2.200	5.300	2.900	6.200	2.200	11.000	0.200	0.300	1.000	1.300	1.800
15	1.700	2.400	2.400	2.400	4.000	2.000	4.500	3.900	0.300	0.900	32.000	1.800
16	1.600	2.300	2.100	2.400	3.000	11.000	2.000	1.000	0.400	0.900	5.700	2.000
17	1.700	2.000	2.000	2.900	2.600	3.300	1.400	0.400	0.400	1.000	2.900	2.500
18	7.400	1.900	2.100	3.000	2.300	2.500	5.800	0.200	0.300	1.000	1.800	2.900
19	8.800	1.900	52.000	11.000	2.100	2.000	2.900	0.100	0.300	1.000	1.900	2.900
20	3.600	1.900	12.000	7.100	2.000	1.900	2.000	0.100	0.200	1.000	2.000	2.400
21	3.000	1.900	13.000	4.900	3.100	1.600	1.300	0.100	0.300	1.000	2.000	2.500
22	2.900	1.900	8.700	9.400	4.000	1.400	1.100	0.100	0.300	1.100	1.800	2.800
23	2.400	2.000	5.700	4.400	3.000	1.300	0.900	0.100	0.300	1.000	1.800	2.100
24	2.000	2.000	4.600	3.300	2.500	1.500	0.800	0.100	0.900	1.000	1.600	2.100
25	2.000	2.400	4.300	3.100	51.000	1.800	0.700	0.100	1.300	0.900	1.400	2.100
26	2.000	2.100	3.900	3.100	12.000	1.800	0.600	0.100	0.700	0.900	11.000	2.500
27	3.500	1.900	3.500	3.100	5.200	1.400	0.500	0.100	0.500	0.900	18.000	3.500
28	3.600	3.100	3.300	3.100	4.000	1.000	0.400	0.100	0.500	0.900	16.000	3.900
29	2.200	2.100	3.300	2.700	3.200	0.600	0.600	0.100	0.300	0.800	7.200	2.900
30	3.600	3.100	2.600	5.100	0.500	0.500	0.100	0.300	0.300	0.800	3.900	2.700
31	2.200	3.100	15.000	0.400	0.200	0.400	0.200	0.200	0.800	0.800	2.400	2.400
MEAN	2.3870	1.9790	5.2450	3.7270	6.0840	5.6900	6.2390	0.3420	3.1970	2.6030	4.3230	2.4520
INCHES	0.078	0.061	0.172	0.118	0.199	0.180	0.204	0.011	0.101	0.085	0.137	0.080
STA AV	0.096	0.095	0.146	0.367	0.229	0.095	0.060	0.246	0.147	0.057	0.186	0.081

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1.877. Yearly mean discharge, 3.7 CFS. Yearly discharge, 1.426 inches.

1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 3 - 4, 1968												
9- 3	RG 090		9- 3	RG 090	0.0	0.0	9- 4	48	4.30	0.0		
9- 4	0.0	0.000		2045	2.1002	0.21		212	3.80	0.0003		
				2101	0.7800	0.34		248	6.00	0.0004		
				2118	0.2471	0.41		330	6.70	0.0006		
				2128	1.1400	0.60		342	8.30	0.0007		
WATERSHED CONDITIONS: From a 1967 survey: sowed crop - 5%; row crop - 1%; alfalfa - 4%; pasture and range - 84%; and miscel- laneous - 6%.												
				2145	0.2118	0.66		430	8.30	0.0010		
				2154	0.2667	0.70		506	15.60	0.0013		
				2257	0.0095	0.71		554	30.70	0.0021		
				2300	1.1999	0.77		612	63.40	0.0027		
				2314	0.3429	0.85		624	109.00	0.0035		
				2333	0.0947	0.88		706	169.70	0.0078		
				2337	0.3000	0.90		748	209.00	0.0136		
				2358	0.1714	0.96		818	299.80	0.0192		
			9- 4	318	0.0	0.96		836	346.40	0.0235		
				328	0.6600	1.07		900	355.40	0.0297		
				335	2.0571	1.31		924	331.10	0.0357		
				341	2.6000	1.57		942	299.80	0.0399		
				348	1.8000	1.78		1030	209.00	0.0489		
				408	0.1800	1.84		1130	137.90	0.0565		
				414	0.6000	1.90		1248	78.90	0.0627		
				535	0.0815	2.01		1418	48.70	0.0669		
				639	0.0844	2.10		1618	27.00	0.0702		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004402. For 30-day antecedent P and Q, see table on previous page.



EVENT OF SEPTEMBER 3 - 4, 1968
CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER

CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER

LOCATION: Winter Creek Watershed above county farm to market road bridge North of Alex in Grady County, Okla., tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 6 N., R. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., about 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P 3.15 O 0.119	1.28 0.079	1.93 0.133	2.44 0.191	6.36 0.495	2.06 0.393	4.47 0.450	1.36 0.025	3.67 0.087	2.08 0.117	4.22 0.199	0.94 0.187	33.96 2.475			
STA AV	P 1.17 O 0.124	1.13 0.121	1.48 0.139	3.10 0.277	3.98 0.430	3.05 0.146	2.10 0.112	3.15 0.154	3.97 0.189	1.56 0.072	2.44 0.211	0.92 0.107	28.06 2.082			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1968	7- 1	0.075	7- 1	0.071	7- 1	0.128	7- 1	0.215	7- 1	0.241	7- 1	0.260	7- 1	0.291	7- 1	0.363
MAXIMUMS FOR PERIOD OF RECORD																
	5-10 1964	0.207	5-10 1964	0.179	5-10 1964	0.269	5-10 1964	0.337	5-10 1964	0.350	5- 9 1964	0.618	5- 9 1964	0.672	5- 5 1964	0.790

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 2%; pasture and range - 82%; and miscellaneous - 10%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.17-4 and 1965, USDA Misc. Pub. 1216, p. 69.17-8. Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.16	0.0	0.19	0.0	0.73	2.91	0.0	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0		
3	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.88	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.71	0.0	0.0		
6	0.00	0.0	0.0	0.0	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.08	0.0	0.12	0.50	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	1.12	0.0	0.0		
10	0.0	0.0	0.07	0.0	0.17	0.0	0.0	0.07	0.0	0.0	0.14	0.0		
11	0.03	0.0	0.19	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.0	0.0		
12	0.0	0.08	0.0	0.20	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.07	0.0	0.0	0.47	0.0	0.62	0.57	0.0	0.0	0.0	0.0		
14	0.0	0.15	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.09	0.0		
15	0.0	0.0	0.0	0.0	0.06	0.13	0.0	0.47	0.04	0.0	1.18	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.23	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0		
18	1.50	0.0	0.31	0.76	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.12		
19	0.09	0.0	0.70	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	0.04	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.20	0.27	0.0	0.28	0.38	0.0	0.0	0.0	0.0	0.02	0.0	0.29		
22	0.03	0.13	0.03	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	1.22	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.23	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.01	1.48	0.16	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.34	0.0		
27	0.92	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.53		
28	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.24	0.0		
29	0.12	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.09	0.0		
31	0.0	0.0	0.0	1.06	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.15	1.28	1.93	2.44	6.36	2.06	4.47	1.36	3.67	2.08	4.22	0.94		
STA AV	1.17	1.13	1.48	3.10	3.98	3.05	2.10	3.15	3.97	1.56	2.44	0.92		

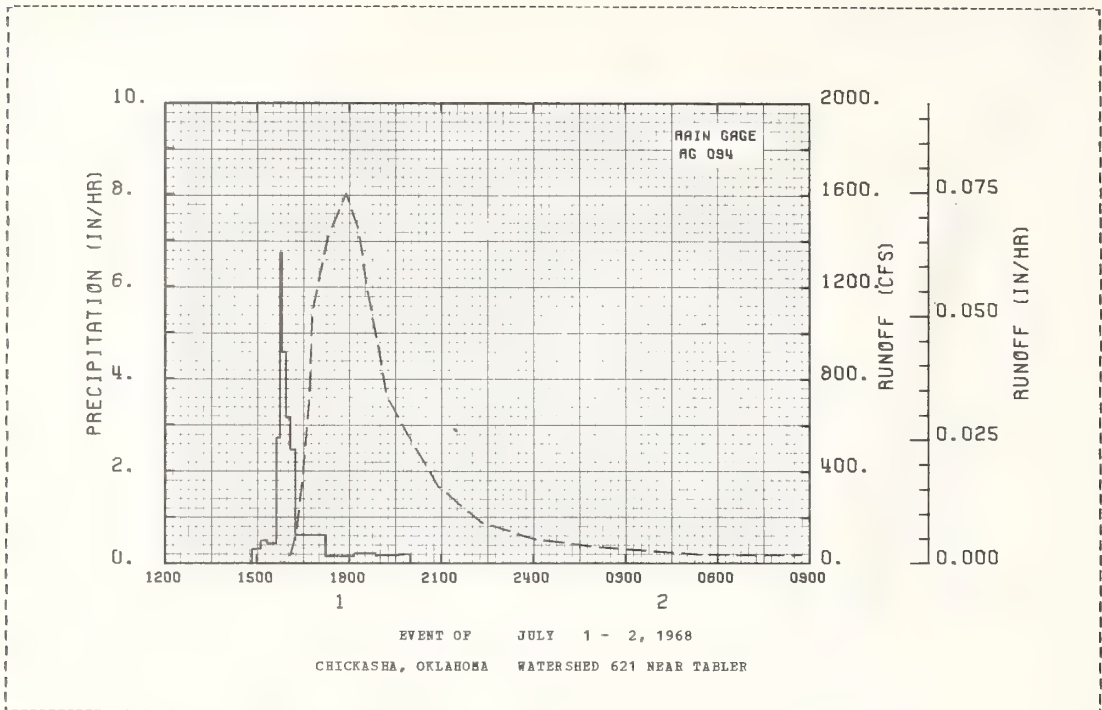
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 33.96 inches. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed.

1968	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA				WATERSHED 621 NEAR TABLER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.30	4.90	2.20	4.60	3.60	56.00	205.00	1.70	0.60	1.40	1.70	9.20	
2	1.70	2.60	2.00	5.10	3.40	23.00	40.00	1.10	0.50	1.20	5.70	7.90	
3	1.20	2.20	1.70	5.60	3.40	16.00	25.00	0.70	1.00	0.80	4.90	7.40	
4	1.80	2.20	1.80	4.60	3.30	15.00	19.00	0.80	17.00	1.00	3.10	7.30	
5	1.80	2.30	2.00	4.40	3.30	21.00	15.00	0.70	2.20	3.60	2.60	6.70	
6	1.30	2.20	2.00	4.20	23.00	17.00	10.00	0.60	1.70	2.00	2.40	5.60	
7	0.40	1.90	2.30	4.40	63.00	21.00	7.60	0.60	1.30	1.50	2.40	5.90	
8	0.70	2.20	2.20	4.40	13.00	19.00	7.00	0.80	1.30	1.60	2.20	5.40	
9	0.80	2.20	1.80	4.40	20.00	16.00	5.90	0.60	0.90	37.00	2.20	5.20	
10	1.80	2.20	1.90	4.60	14.00	15.00	4.60	0.80	1.00	7.30	2.60	5.20	
11	2.90	1.90	2.00	4.40	8.60	14.00	2.90	0.80	0.90	5.60	3.10	4.90	
12	1.70	2.20	6.30	5.10	8.10	13.00	2.40	0.80	0.80	5.20	2.00	4.70	
13	1.40	1.70	3.40	5.10	15.00	11.00	8.40	3.40	0.80	3.90	2.00	4.30	
14	1.00	1.70	3.10	4.40	9.50	11.00	7.40	1.30	0.80	3.00	2.20	4.30	
15	0.90	2.90	2.40	4.40	8.10	11.00	6.10	2.30	1.30	2.20	22.00	4.50	
16	1.80	2.40	2.20	4.60	7.60	12.00	4.20	0.40	1.40	2.50	8.10	4.10	
17	1.80	2.30	2.00	4.90	6.40	9.50	3.40	0.20	1.40	1.80	6.40	4.30	
18	9.10	2.20	3.20	6.20	6.10	8.40	4.90	0.20	1.40	1.50	4.70	5.20	
19	5.50	2.30	13.00	16.00	5.60	8.40	4.20	0.30	1.40	1.50	3.70	4.50	
20	3.10	2.30	13.00	6.70	5.60	8.10	2.90	0.60	1.20	1.60	3.90	4.30	
21	3.10	1.90	7.90	9.60	7.80	3.10	2.90	0.20	0.80	1.80	3.90	5.40	
22	3.10	1.70	6.10	17.00	7.20	2.30	2.60	0.20	0.80	1.80	3.50	5.60	
23	2.20	1.70	4.20	6.10	5.90	2.30	1.90	0.10	8.60	1.60	3.70	4.30	
24	1.90	4.60	3.60	5.30	6.40	2.60	1.60	0.10	13.00	1.50	3.50	4.30	
25	1.90	2.90	3.40	4.90	77.00	4.60	1.30	0.30	5.10	1.60	3.10	4.30	
26	1.90	2.30	3.10	4.40	23.00	3.60	1.30	0.20	3.40	1.70	20.00	4.30	
27	24.00	2.40	3.10	4.20	15.00	2.80	0.90	0.20	2.80	1.50	16.00	7.60	
28	7.20	4.20	3.80	4.00	10.00	2.00	1.10	0.20	1.90	1.70	16.00	7.00	
29	5.30	1.90	4.00	4.00	8.70	1.90	1.30	0.50	1.60	1.70	11.00	5.60	
30	9.00		4.40	3.80	8.40	1.40	0.90	0.90	1.30	1.70	9.50	4.70	
31	3.80		4.90		43.00		1.30	0.80		1.70		3.10	
MEAN	3.429	2.428	3.839	5.713	14.290	11.733	13.000	0.723	2.607	3.371	5.937	5.390	
INCHES	0.119	0.079	0.133	0.191	0.495	0.393	0.450	0.025	0.087	0.117	0.199	0.187	
STA AV	0.124	0.121	0.139	0.277	0.430	0.146	0.112	0.154	0.189	0.072	0.211	0.107	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1,776. Yearly mean discharge, 6.0 CFS. Yearly discharge, 2.475 inches.

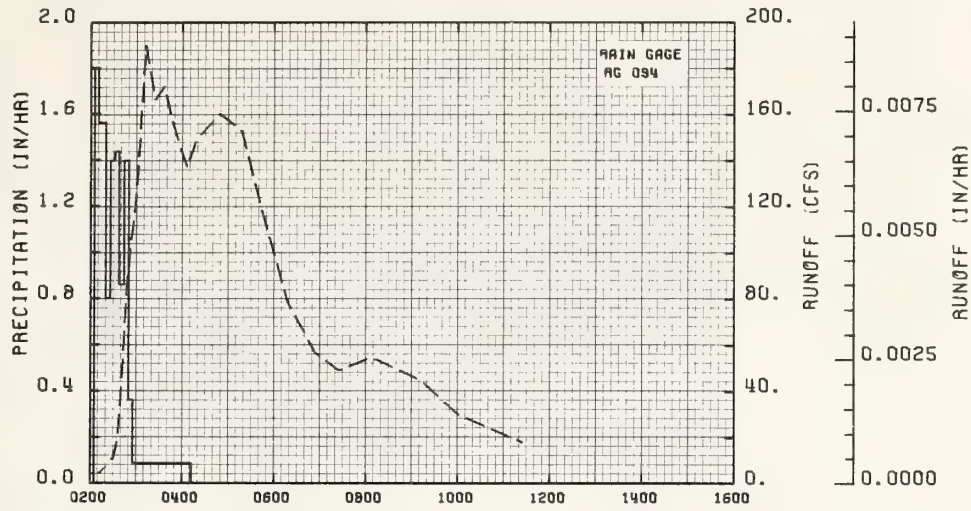
1968	SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA				WATERSHED 621 NEAR TABLER			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF JULY 1 - 2, 1968													
7- 1	RG 094		7- 1	RG 094			7- 1						
	0.0	0.001		1450	0.0	0.0		1536	2.00	0.0			
				1507	0.3176	0.09		1554	5.40	0.0001			
				1520	0.5077	0.20		1606	39.30	0.0003			
				1538	0.4333	0.33		1618	155.30	0.0012			
				1545	2.7429	0.65		1630	391.30	0.0038			
WATERSHED CONDITIONS:													
From a 1967 survey; sowed					1549	6.7500	1.10	1642	704.70	0.0089			
crop - 5%; row crop - 1%;					1557	4.5750	1.71	1648	1088.90	0.0130			
alfalfa - 2%; pasture and					1605	3.1501	2.13	1718	1412.10	0.0421			
range - 82%; and miscel-					1615	2.4599	2.54	1754	1605.50	0.0843			
laneous - 10%.					1713	0.6103	3.13	1818	1447.60	0.1126			
				1810	0.1474	3.27		1836	1179.90	0.1310			
				1851	0.2341	3.43		1900	895.40	0.1504			
				1936	0.1733	3.56		1912	743.70	0.1580			
				2000	0.2000	3.64		1918	704.70	0.1613			
								1948	581.30	0.1763			
								2054	332.20	0.1997			
								2218	176.60	0.2163			
								2400	103.20	0.2274			
							7- 2	212	67.10	0.2361			
								424	45.80	0.2419			
								524	35.90	0.2438			
								842	33.40	0.2491			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654. For 30-day antecedent P and Q, see table on previous page.



1968	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA						WATERSHED 621 NEAR TABLER	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF OCTOBER 9, 1968											
10- 9	RG 094 0.0	0.000	10- 9	RG 094	0.0	0.0	10- 9	212	4.70	0.0	
				205	1.8000	0.15		230	11.10	0.0001	
				220	1.5600	0.41		236	19.50	0.0002	
				226	0.8000	0.49		242	51.30	0.0004	
				232	1.4000	0.63		248	89.00	0.0007	
WATERSHED CONDITIONS:				237	1.4400	0.75		300	125.50	0.0017	
From a 1967 survey; sowed				244	0.8571	0.85		312	189.70	0.0032	
crop - 5%; row crop - 1%;				250	1.4000	0.99		324	166.10	0.0048	
alfalfa - 2%; pasture and				255	0.3600	1.02		336	172.30	0.0064	
range - 82%; and miscel-				412	0.0857	1.13		348	155.30	0.0079	
laneous - 10%.								406	136.90	0.0099	
								418	149.00	0.0112	
								448	160.00	0.0148	
								518	152.10	0.0184	
								548	113.40	0.0215	
								618	78.10	0.0237	
								654	56.30	0.0256	
								724	48.90	0.0268	
								806	54.60	0.0285	
								912	44.30	0.0310	
								1000	29.80	0.0324	
								1124	17.70	0.0339	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654. For 30-day antecedent P and Q, see table on previous page.



AREA: 131780.00 acres 205.90 sq. miles

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 9%; row crop - 13%; alfalfa - 3%; pasture and range - 53%; and miscellaneous - 22%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.18-4 and 1965, USDA Misc. Pub. 1216, p. 69.7-21. The stream gauging station was maintained from Oct. 1955 to Oct. 1963 by the U.S. Geological Survey. Precipitation data obtained from a Thiessen weighted average of 32 gauges on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

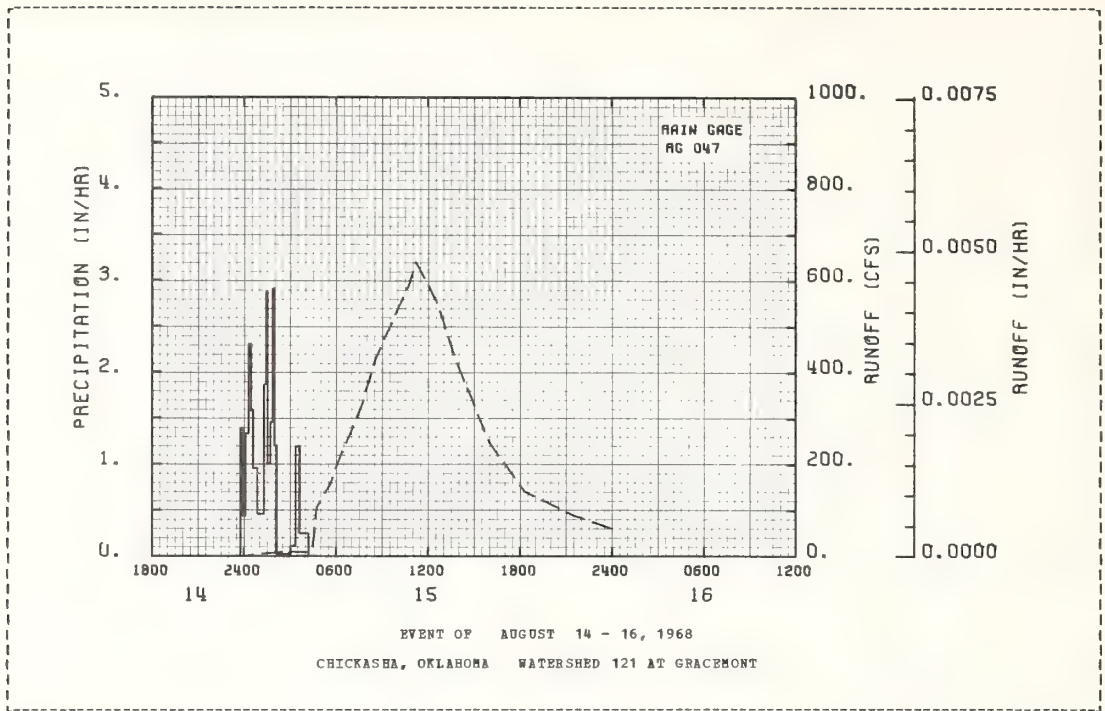
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 36.50 inches. Precipitation values are a Thiessen weighted average of 32 rain gages on the watershed.

1968	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA				WATERSHED 121 AT GRACEMONT			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	11.00	44.00	11.00	10.00	6.50	162.00	8.80	0.20	4.50	4.70	7.20	39.00	
2	6.40	74.00	8.90	11.00	3.60	93.00	74.00	0.30	1.80	2.40	36.00	35.00	
3	3.40	55.00	7.80	76.00	2.60	64.00	47.00	0.20	7.60	1.80	36.00	35.00	
4	5.50	38.00	7.30	48.00	2.40	41.00	39.00	1.30	291.00	2.40	25.00	34.00	
5	5.50	28.00	7.30	36.00	2.10	34.00	18.00	1.30	69.00	4.70	23.00	30.00	
6	3.80	18.00	7.30	26.00	1.80	30.00	13.00	1.30	56.00	5.10	21.00	30.00	
7	2.70	14.00	8.30	21.00	28.00	29.00	15.00	1.00	36.00	4.20	19.00	28.00	
8	2.70	12.00	10.00	12.00	28.00	23.00	14.00	0.60	29.00	3.80	19.00	26.00	
9	2.70	11.00	9.40	12.00	20.00	18.00	10.00	0.80	24.00	23.00	22.00	23.00	
10	3.40	11.00	10.00	8.80	24.00	25.00	7.60	0.60	20.00	11.00	34.00	19.00	
11	4.20	9.40	13.00	8.20	23.00	47.00	6.50	0.80	18.00	9.00	33.00	18.00	
12	5.00	8.30	16.00	8.80	23.00	27.00	4.50	1.30	14.00	11.00	33.00	14.00	
13	5.50	11.00	17.00	10.00	82.00	20.00	3.20	1.80	13.00	9.70	32.00	13.00	
14	5.90	12.00	15.00	8.80	102.00	16.00	3.60	1.50	13.00	10.00	33.00	13.00	
15	6.80	11.00	10.00	8.20	62.00	328.00	31.00	231.00	12.00	10.00	85.00	13.00	
16	8.30	12.00	9.40	8.80	47.00	283.00	28.00	34.00	13.00	8.40	52.00	13.00	
17	11.00	12.00	11.00	7.60	27.00	62.00	13.00	17.00	12.00	9.00	35.00	13.00	
18	9.40	10.00	12.00	10.00	16.00	36.00	15.00	12.00	11.00	7.80	25.00	38.00	
19	18.00	10.00	13.00	85.00	16.00	28.00	16.00	7.60	8.20	6.60	25.00	30.00	
20	12.00	10.00	18.00	26.00	15.00	20.00	15.00	5.40	6.50	5.60	27.00	26.00	
21	12.00	9.40	18.00	21.00	18.00	16.00	14.00	4.00	7.00	5.60	22.00	25.00	
22	16.00	10.00	15.00	38.00	16.00	14.00	12.00	3.20	5.90	5.60	18.00	21.00	
23	15.00	13.00	12.00	30.00	15.00	12.00	8.80	2.80	7.00	5.60	17.00	20.00	
24	15.00	14.00	11.00	21.00	13.00	10.00	5.90	2.10	18.00	5.60	16.00	18.00	
25	14.00	16.00	9.40	19.00	63.00	9.50	3.20	1.50	12.00	5.60	16.00	18.00	
26	10.00	14.00	10.00	15.00	46.00	8.20	1.80	2.40	8.20	5.60	41.00	20.00	
27	9.40	12.00	10.00	12.00	25.00	6.50	1.30	6.50	7.00	5.60	60.00	32.00	
28	8.90	14.00	9.40	9.50	19.00	4.90	0.40	4.00	4.90	5.60	65.00	28.00	
29	10.00	11.00	8.90	10.00	16.00	3.60	0.40	2.80	4.50	5.60	56.00	21.00	
30	14.00	10.00	10.00	9.50	24.00	2.40	0.40	4.90	4.50	6.10	42.00	21.00	
31	9.40	11.00	11.00	9.10	91.00	0.30	0.30	4.90	7.80	7.80	21.00	21.00	
MEAN	8.610	18.072	11.174	20.907	28.329	49.103	13.894	11.584	24.620	6.919	32.507	23.710	
INCHES	0.048	0.095	0.063	0.113	0.159	0.266	0.078	0.065	0.133	0.039	0.176	0.133	
STA AV	0.042	0.423	0.061	0.127	0.126	0.098	0.016	0.032	0.302	0.035	0.045	0.056	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001806. To convert discharge in inches to AC-FT, multiply by 10,980. Yearly mean discharge, 20.7 CFS. Yearly discharge, 1.367 inches.

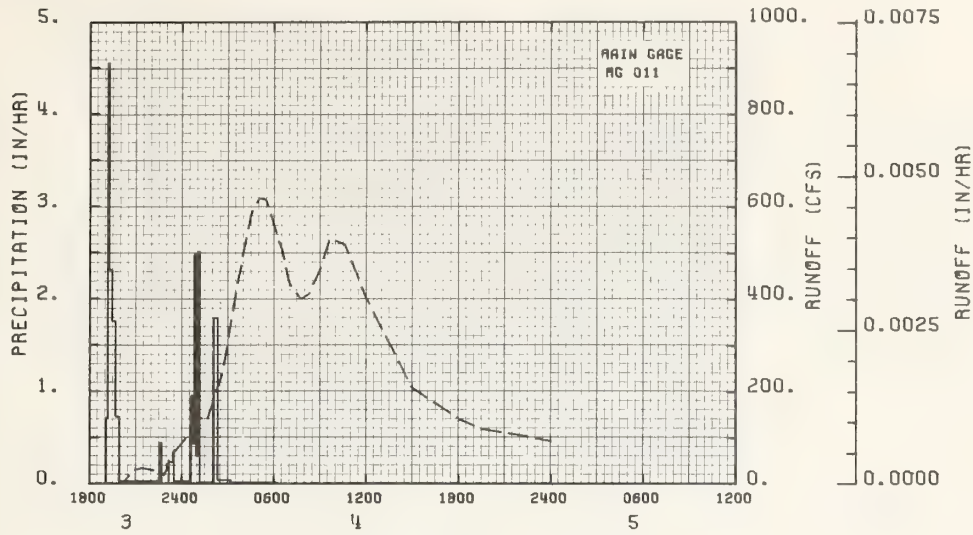
1968	SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA					WATERSHED 121 AT GRACEMONT	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF AUGUST 14 - 16, 1968												
RG 047			RG 047									
8-14	0.0	0.000	8-14	2345	0.0	0.0	8-14	2400	1.50	0.0		
				2354	1.4001	0.21	8-15	-212	9.50	0.0001		
			8-15	5	0.9600	0.29		424	10.20	0.0003		
				18	1.3385	0.58		436	53.60	0.0003		
				25	2.3143	0.85		442	106.90	0.0004		
WATERSHED CONDITIONS:												
From a 1967 survey; sowed												
crop - 9%; row crop - 13%;												
alfalfa - 3%; pasture and												
range - 53%; and miscel-												
laneous - 22%.												
				36	1.5818	1.14		536	157.80	0.0013		
				53	0.9529	1.41		612	213.90	0.0021		
				118	0.4560	1.60		654	267.00	0.0034		
				126	1.8750	1.85		736	322.90	0.0050		
				131	2.8800	2.09		836	434.40	0.0078		
				143	1.0000	2.29		954	529.90	0.0125		
				152	1.4667	2.51		1042	588.70	0.0159		
				159	2.9143	2.85		1112	639.20	0.0182		
				208	1.2000	3.03		1236	550.20	0.0245		
				302	0.0222	3.05		1342	433.60	0.0286		
				322	0.1200	3.09		1600	245.70	0.0345		
				338	1.2000	3.41		1818	139.30	0.0378		
				412	0.2471	3.55		2130	87.30	0.0405		
								2400	58.90	0.0419		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007525. For 30-day antecedent P and Q, see table on previous page.



1968 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 3 - 4, 1968										
9- 3	RG 011 0.0	0.000	9- 3	RG 011	0.0	0.0	9- 3	2012	2.40	0.0
				1905	0.0	0.06		2030	15.60	0.0
				1910	0.7200	0.44		2054	30.10	0.0001
				1915	4.5594	0.94		2118	33.80	0.0002
				1928	2.3078	1.32		2230	26.10	0.0005
				1941	1.7539					
				1956	0.7200	1.50		2248	18.40	0.0005
				2232	0.0231	1.56		2300	29.70	0.0005
				2240	0.4500	1.62		2312	56.30	0.0006
				2310	0.0	1.62		2400	88.80	0.0010
				2325	0.2400	1.68	9- 4	106	144.50	0.0020
				2330	0.3600	1.71		136	135.30	0.0025
			9- 4	36	0.0500	1.74		242	249.20	0.0041
				41	0.9600	1.82		330	413.30	0.0061
				48	0.4286	1.87		430	584.20	0.0099
				55	2.4857	2.16		500	617.70	0.0122
				105	0.3000	2.21		530	612.30	0.0145
				110	2.5200	2.42		630	507.00	0.0187
				204	0.0111	2.43		700	433.10	0.0205
				220	1.8000	2.91		742	398.90	0.0227
				310	0.0360	2.94		818	413.20	0.0245
				610	0.0100	2.97		900	465.90	0.0268
								936	530.70	0.0290
								1036	516.10	0.0329
								1200	400.40	0.0377
								1500	206.10	0.0445
								1800	139.50	0.0484
								1930	117.10	0.0498
								2200	104.10	0.0519
								2400	90.70	0.0534

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007525. For 30-day antecedent P and Q, see table on previous page.



EVENT OF SEPTEMBER 3 - 4, 1968
CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT

CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER

LOCATION: Bedingfield Watershed is the West branch of East Bitter Creek 1.4 miles above East Bitter Creek gaging station, in Grady County, Okla.; tributary to East Bitter Creek; Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 22, T. 7 N., R. 6 W., lat. 35 deg. 03 min. 53 sec., long. 97 deg. 49 min. 13 sec.

AREA: 12314.00 acres 19.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	2.52	1.13	1.83	2.07	4.22	2.09	3.86	1.49	3.58	2.36	4.59	1.18	30.92															
	O	0.093	0.075	0.156	0.117	0.185	0.140	0.111	0.006	0.096	0.078	0.146	0.076	1.279															
STA AV	P	1.19	1.06	1.73	3.86	2.96	2.11	2.17	4.47	3.78	1.56	1.44	0.93	27.24															
	O	0.105	0.095	0.166	0.571	0.176	0.085	0.055	0.326	0.214	0.049	0.075	0.070	1.987															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge				1 Hour				2 Hours				Maximum Volume for Selected Time Interval								2 Days				8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		9- 4	0.021	9- 4	0.010	9- 4	0.035	9- 4	0.066	9- 4	0.076	9- 4	0.080	9- 4	0.081	5-25	0.129												
MAXIMUMS FOR PERIOD OF RECORD																													
		8- 8	0.169	8- 8	0.164	8- 8	0.307	8- 7	0.562	4-12	0.597	4-12	0.642	4-12	0.754	4- 9	0.875												
		1965	1965	1965	1965	1965	1965	1965	1967	1967	1967	1967	1967	1967	1967	1967	1967												

NOTES: Watershed conditions: From a 1967 survey; sowed crop - 5%; row crop - 1%; alfalfa - 2%; pasture and range - 90%; and miscellaneous - 2%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.16-8 and 69.7-21. Precipitation data obtained from a Thiessen weighted average of 18 gages on the watershed. Precipitation records began Jan. 1965; runoff records began Jan. 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER														
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
	1	0.0	0.10	0.0	0.16	0.0	0.98	2.04	0.0	0.0	0.0	0.0	0.0															
	2	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0															
	3	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0															
	4	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	1.21	0.0	0.0	0.0															
	5	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	1.12	0.0	0.0															
	6	0.03	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	7	0.0	0.0	0.10	0.0	0.15	0.31	0.0	0.0	0.0	0.0	0.0	0.0															
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	9	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	1.05	0.0	0.0															
	10	0.0	0.0	0.15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.13	0.0															
	11	0.04	0.0	0.28	0.0	0.06	0.0	0.0	0.01	0.0	0.0	0.0	0.0															
	12	0.0	0.09	0.0	0.34	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.03															
	13	0.0	0.05	0.0	0.0	0.31	0.0	0.80	0.20	0.0	0.0	0.0	0.0															
	14	0.0	0.16	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.26	0.0															
	15	0.0	0.0	0.0	0.0	0.16	0.15	0.08	1.04	0.04	0.0	1.40	0.0															
	16	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.15	0.0	0.0															
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0															
	18	1.63	0.0	0.16	0.58	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0															
	19	0.10	0.0	0.61	0.21	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0															
	20	0.03	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0															
	21	0.17	0.23	0.0	0.24	0.42	0.0	0.0	0.0	0.0	0.04	0.0	0.24															
	22	0.06	0.12	0.05	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	23	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0															
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0															
	25	0.0	0.0	0.0	0.01	1.23	0.06	0.0	0.0	0.0	0.0	0.0	0.0															
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0															
	27	0.31	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.62															
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.23	0.0															
	29	0.10	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.04	0.0															
	31	0.0	0.0	0.0	0.0	0.47	0.0	0.02	0.03	0.0	0.0	0.0	0.0															
	TOTAL	2.52	1.13	1.83	2.07	4.22	2.09	3.86	1.49	3.58	2.36	4.59	1.18															
	STA AV	1.19	1.06	1.73	3.86	2.96	2.11	2.17	4.47	3.78	1.56	1.44	0.93															

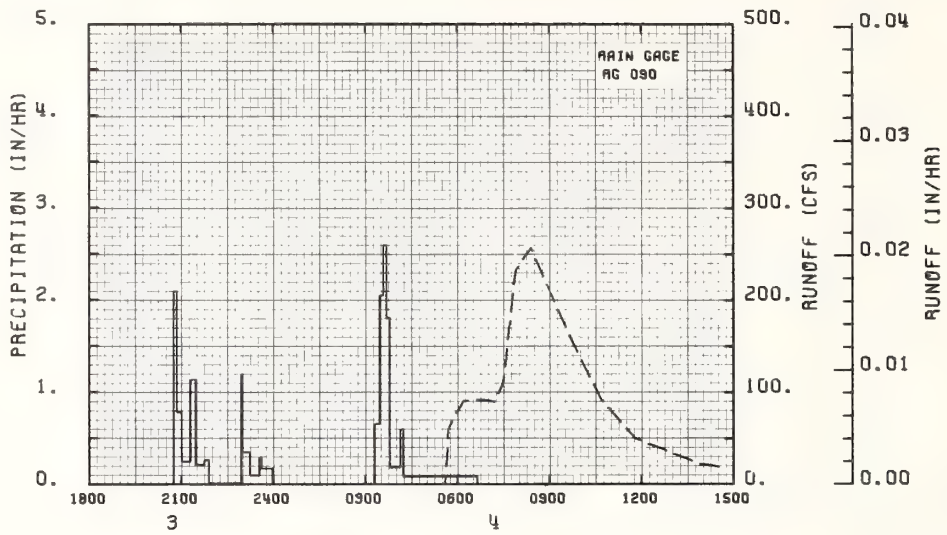
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 30.92 inches. Precipitation values are a Thiessen weighted average of 18 rain gages on the watershed.

1968 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.000	1.500	1.300	1.700	1.400	20.000	22.000	0.0	0.0	0.0	0.300	2.100
2	1.100	1.300	1.300	1.900	1.400	10.000	12.000	0.0	0.0	0.0	0.700	1.600
3	1.100	1.300	1.200	2.200	1.400	3.600	1.600	0.0	0.0	0.0	1.500	1.300
4	1.100	1.200	1.100	1.600	1.300	2.800	0.800	0.0	41.000	0.0	0.600	1.200
5	1.100	1.200	1.200	1.400	1.000	4.000	0.700	0.0	0.800	4.200	0.600	1.100
6	1.100	1.200	1.300	1.600	0.500	3.900	0.700	0.0	0.200	0.800	0.500	1.100
7	0.900	1.100	1.300	1.600	3.300	4.300	0.500	0.0	0.0	0.200	0.500	1.000
8	0.900	1.100	1.500	1.600	2.300	2.800	0.600	0.0	0.0	0.200	0.500	1.000
9	1.100	1.200	1.400	1.400	4.000	2.100	0.400	0.0	0.0	26.000	0.500	1.100
10	1.200	1.200	1.300	1.400	3.900	1.900	0.400	0.0	0.0	1.700	0.600	1.000
11	1.300	1.200	1.300	1.500	2.200	1.700	0.300	0.0	0.0	0.700	0.500	1.100
12	1.200	1.100	1.500	1.700	2.200	1.400	0.200	0.0	0.0	0.600	0.500	1.000
13	1.100	1.100	1.900	2.300	3.000	1.300	7.800	0.0	0.0	0.500	0.500	0.800
14	1.200	1.300	3.600	1.600	3.100	1.100	3.800	0.0	0.0	0.400	0.600	0.900
15	1.100	1.500	2.800	1.400	2.300	1.000	1.600	2.900	0.0	0.300	22.000	0.900
16	1.100	1.400	1.900	1.600	1.900	1.400	0.700	0.400	0.0	0.300	3.000	1.000
17	1.200	1.300	1.700	1.600	1.600	1.500	0.400	0.0	0.0	0.300	1.300	1.100
18	5.000	1.300	1.600	1.600	1.600	1.000	1.500	0.0	0.0	0.300	0.900	1.600
19	5.100	1.300	13.000	4.100	1.600	0.900	0.600	0.0	0.0	0.300	0.800	1.600
20	2.200	1.300	5.100	4.500	1.500	0.700	0.300	0.0	0.0	0.300	0.800	1.100
21	1.900	1.300	7.600	3.300	1.900	0.700	0.300	0.0	0.0	0.300	0.800	1.300
22	1.900	1.400	6.100	4.200	2.300	0.600	0.100	0.0	0.0	0.300	0.800	1.500
23	1.600	1.500	3.400	2.600	1.600	0.500	0.100	0.0	1.800	0.300	0.800	1.100
24	1.300	1.600	3.000	1.800	1.400	0.500	0.0	0.0	5.300	0.200	0.700	1.100
25	1.300	1.600	2.600	1.800	30.000	0.600	0.0	0.0	0.500	0.300	0.700	1.100
26	1.300	1.500	2.300	1.800	7.000	0.800	0.0	0.0	0.200	0.300	8.600	1.200
27	1.700	1.500	1.800	1.800	2.600	0.500	0.0	0.0	0.100	0.200	9.400	2.100
28	1.800	1.900	1.800	1.600	2.000	0.400	0.0	0.0	0.0	0.200	10.000	2.100
29	1.300	1.500	1.700	1.600	1.600	0.300	0.0	0.0	0.0	0.300	4.100	1.500
30	1.600	1.600	1.600	1.500	1.500	0.100	0.0	0.0	0.0	0.300	2.200	1.500
31	1.400	1.600	1.600	2.200	2.200	0.0	0.0	0.0	0.0	0.300	1.000	1.000
MEAN	1.5550	1.3410	2.6060	2.0100	3.0840	2.4130	1.8520	0.1070	1.6630	1.2940	2.5100	1.2610
INCHES	0.093	0.075	0.156	0.117	0.185	0.140	0.111	0.006	0.096	0.078	0.146	0.076
STA AV	0.105	0.095	0.166	0.571	0.176	0.085	0.055	0.326	0.214	0.049	0.075	0.070

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1.026. Yearly mean discharge, 1.8 CFS. Yearly discharge, 1.278 inches.

1968 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF SEPTEMBER 3 - 4, 1968												
RG	090		RG	090								
9- 3	0.0		9- 3	2045	0.0	0.0	9- 4	536	0.0	0.0		
9- 4		0.0		2051	2.1002	0.21		542	61.20	0.0003		
				2101	0.7800	0.34		612	90.90	0.0034		
				2118	0.2471	0.41		642	91.90	0.0071		
				2128	1.1400	0.60		712	89.00	0.0107		
WATERSHED CONDITIONS:				2145	0.2118	0.66		730	112.10	0.0131		
From a 1967 survey; sowed				2154	0.2667	0.70		742	172.10	0.0154		
crop - 5%; row crop - 1%;				2257	0.0095	0.71		754	232.90	0.0186		
alfalfa - 2%; pasture and				2300	1.1999	0.77		824	257.20	0.0285		
range - 90%; and miscel-				2314	0.3429	0.85		842	232.90	0.0344		
laneous - 2%.				2333	0.0947	0.88		942	157.60	0.0501		
				2337	0.3000	0.90		1042	90.90	0.0601		
				2358	0.1714	0.96		1148	49.10	0.0663		
			9- 4	318	0.0	0.96		1354	21.40	0.0723		
				328	0.6600	1.07		1600	11.20	0.0751		
				335	2.0571	1.31						
				341	2.6000	1.57						
				348	1.8000	1.78						
				408	0.1800	1.84						
				414	0.6000	1.90						
				535	0.0815	2.01						
				639	0.0844	2.10						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00008054. For 30-day antecedent P and Q, see table on previous page.



EVENT OF SEPTEMBER 3 - 4, 1968
CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER

CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocasset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 28, T. 8 N., R. 7 W., lat. 35 deg. 08 min. 44 sec., long. 97 deg. 57 min. 30 sec.

AREA: 15206.00 acres 23.76 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	2.09	0.91	0.88	3.13	5.05	2.34	2.90	1.80	3.05	1.86	4.30	0.78	29.09				
	O	0.018	0.017	0.028	0.205	0.121	0.075	0.009	0.006	0.002	0.024	0.101	0.009	0.615				
STA AV	P	1.36	0.55	1.46	4.69	3.85	2.91	2.16	1.57	4.17	2.63	2.27	0.89	28.46				
	O	0.009	0.009	0.015	0.989	0.100	0.073	0.005	0.003	0.036	0.162	0.054	0.010	1.466				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	4-19	0.023	4-19	0.022	4-19	0.044	4-19	0.120	4-18	0.168	4-18	0.183	4-18	0.187	4-18	0.195		
MAXIMUMS FOR PERIOD OF RECORD																		
	4-12	0.320	4-12	0.314	4-12	0.600	4-12	1.201	4-12	1.310	4-12	1.338	4-12	1.424	4- 9	1.720		
	1967		1967		1967		1967		1967		1967		1967		1967			

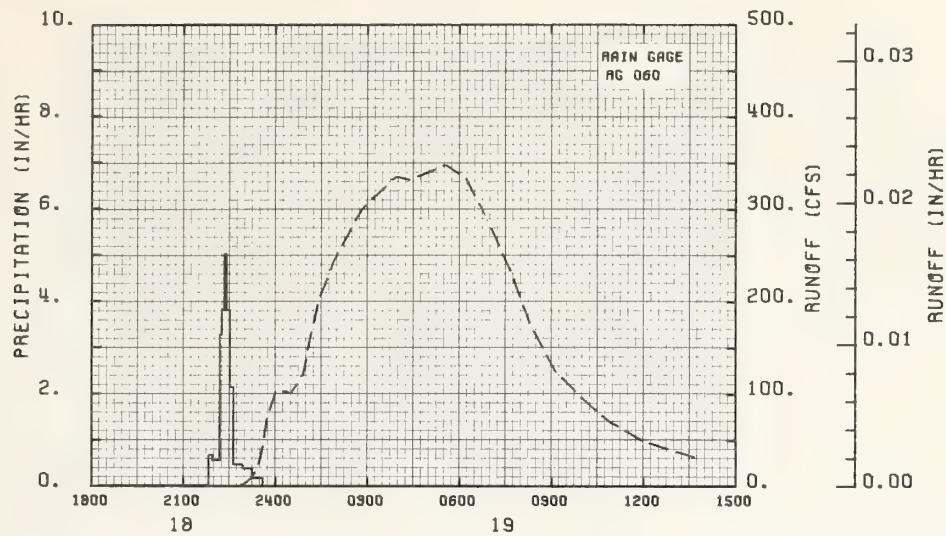
NOTES: Watershed conditions: 36% of area in cultivation (alfalfa, sowed crops and row crops; the pasture or range land (64%) is mostly short grass on moderately steep slopes. About 10% is severely eroded. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 69.27-4, and for composite map, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation and runoff records began Jan. 1967. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 DAILY PRECIPITATION (inches)													
CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.11	0.0	0.62	0.86	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0
3	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.01	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.79	0.0	0.0	0.0
6	0.03	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.05	0.0	0.01	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0
10	0.0	0.0	0.19	0.0	0.07	0.01	0.0	0.0	0.0	0.0	0.07	0.0	0.0
11	0.05	0.0	0.11	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.08	0.0	0.32	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
13	0.0	0.04	0.0	0.0	0.58	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0
14	0.0	0.15	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.28	0.0	0.0
15	0.0	0.0	0.0	0.0	0.34	0.92	0.44	1.18	0.02	0.0	1.12	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.04	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
18	1.10	0.0	0.20	1.82	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.11	0.0
19	0.12	0.0	0.09	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.01	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.18	0.20	0.0	0.27	0.59	0.0	0.0	0.0	0.0	0.01	0.0	0.10	0.0
22	0.12	0.16	0.04	0.39	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0
23	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.15	0.21	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	1.17	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.21	0.05	0.0
27	0.01	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.51	0.0
28	0.06	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.23	0.0	0.0
29	0.41	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.06	0.0	0.0
31	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
TOTAL	2.09	0.91	0.88	3.13	5.05	2.34	2.90	1.80	3.05	1.86	4.30	0.78	
STA AV	1.36	0.55	1.46	4.69	3.85	2.91	2.16	1.57	4.17	2.63	2.27	0.89	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Yearly precipitation 29.09 inches. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed.

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1.267. Yearly mean discharge, 1.1 CFS. Yearly discharge, 0.613 inches.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006521. For 30-day antecedent P and Q, 'see table on previous page.



EVENT OF APRIL 18 - 19, 1968
CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSETT

CHICKASHA, OKLAHOMA WATERSHED C-1

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, R. 7 W., T. 7 N., about 2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

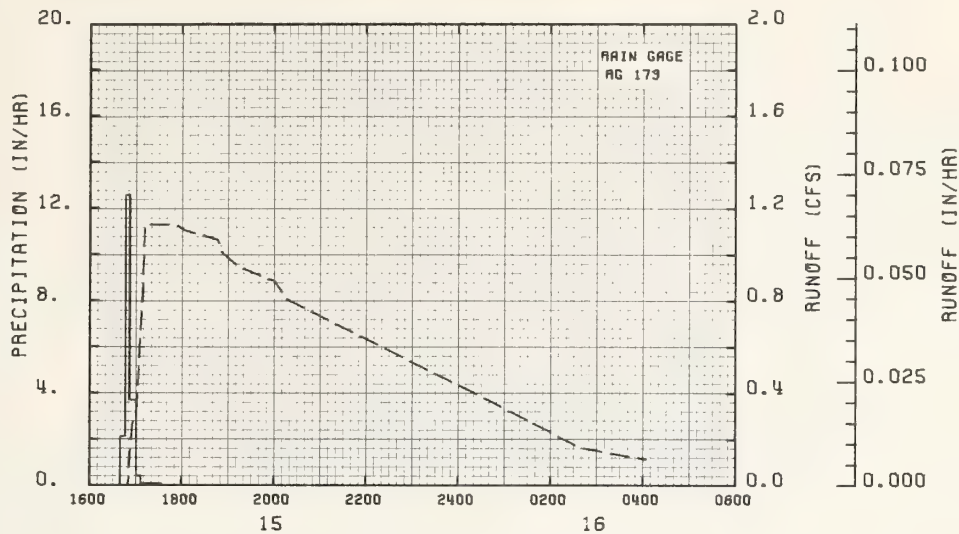
AREA: 17.83 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-1	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	2.47	0.97	1.83	1.78	4.97	3.89	3.29	1.64	3.38	2.30	4.75	0.83	32.10	
	O	0.0	0.0	0.001	0.0	0.002	0.635	0.308	0.0	0.046	0.394	0.902	0.0	2.288	
STA AV	P	1.11	0.86	1.67	3.51	2.84	2.53	2.19	5.17	3.63	1.55	1.41	0.76	27.21	
	O	0.0	0.0	0.008	0.063	0.000	0.160	0.085	0.733	0.127	0.098	0.225	0.0	1.501	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-15	0.063	6-15	0.060	6-15	0.117	6-15	0.277	6-15	0.362	6-15	0.425	11-26	0.600
		4-12	0.081	8-28	0.065	8-28	0.128	8-28	0.349	8-28	0.614	8-28	0.920	8-28	1.049
		1967		1965		1965		1965		1965		1965		1965	
MAXIMUMS FOR PERIOD OF RECORD															
		1967		1965		1965		1965		1965		1965		1965	

NOTES: Watershed conditions: Continuous cotton - tillage during fallow period consisted of shredding stalks, disking, chiseling, spring-tooth harrowing and spike-tooth harrowing. Cotton was planted during the third of June. Tillage during the growing season consisted of rotary hoeing and cultivating. Principal drain with less than 0.05 ft. grade per 100 feet was maintained during the growing season by use of field cultivator. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.30-1 and 69.30-3. Monthly precipitation values obtained from one recording rain gage, No. 173, located near the 1.5 ft. H-flume. Precipitation and runoff records began January 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA				WATERSHED C-1			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 15 - 16, 1968											
RG	173		RG	173							
6-15	0.0	0.0	6-15	1640	0.0	0.0	6-15	1650	0.0	0.0	
				1647	2.1428	0.25		1651	0.02	0.0	
				1653	12.5992	1.51		1653	0.14	0.0002	
				1701	3.6751	2.00		1656	0.27	0.0007	
				1707	0.4000	2.04		1701	0.31	0.0021	
WATERSHED CONDITIONS:											
100% cropland, continuous				1734	0.0667	2.07		1708	0.75	0.0055	
dryland cotton. Field								1712	1.13	0.0090	
freshly tilled, including								1749	1.13	0.0478	
rotary hoeing and planting								1805	1.10	0.0643	
cotton.								1847	1.06	0.1063	
30 Day Antecedent Conditions:								1854	1.00	0.1130	
Rainfall		Runoff						1915	0.94	0.1320	
Date	(inches)	(inches)						2001	0.88	0.1709	
05-15	0.28	0.0						2018	0.80	0.1841	
05-21	0.47	0.0					6-16	31	0.38	0.3225	
05-25	0.86	0.001									
05-29	0.22	0.0						239	0.16	0.3543	
05-31	0.76	0.001						404	0.11	0.3648	
06-01	0.51	0.155									
06-05	0.78	0.016									
06-07	0.53	0.015									
06-10	0.03	0.0									

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.05562. Runoff ended at 1707 on June 17, 1968 with accumulated total of 0.44942 inches.



EVENT OF JUNE 15 - 16, 1968
CHICKASHA, OKLAHOMA WATERSHED C-1

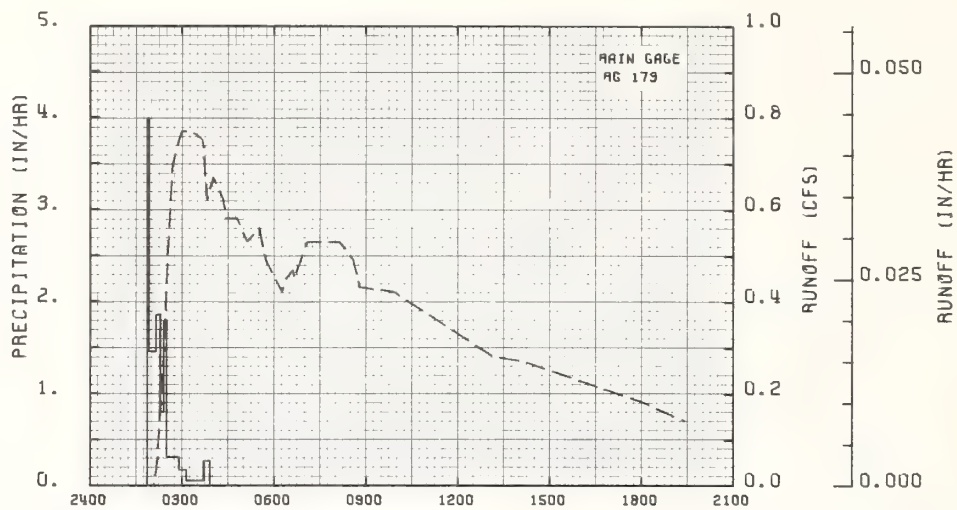
1968 SELECTED RUNOFF EVENT

CHICKASHA, OKLAHOMA WATERSHED C-1

ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)

EVENT OF OCTOBER 9, 1968										
10- 9	RG 173		10- 9	RG 173			10- 9			
	0.0	0.0		152	0.0	0.0		150	0.0	0.0
				155	4.0000	0.20		204	0.0	0.0
				209	1.4571	0.54		209	0.03	0.0001
				218	1.8667	0.82		215	0.12	0.0005
				224	0.8000	0.90		221	0.23	0.0014
WATERSHED CONDITIONS:										
100 % cropland, continuous				229	1.8000	1.05	225	0.31	0.0024	
dryland cotton. Cotton				254	0.3120	1.18	231	0.49	0.0047	
mature, average height				308	0.1714	1.22	241	0.70	0.0102	
27 inches.				341	0.0545	1.25	258	0.77	0.0218	
				354	0.2769	1.31	316	0.77	0.0347	
30 Day Antecedent Conditions:										
	Rainfall	Punoff								
Date	(inches)	(inches)								
09-15	0.04	0.0						340	0.75	0.0516
09-17	0.21	0.0						342	0.72	0.0530
09-23	1.28	0.26						349	0.62	0.0574
09-24	0.35	0.003						400	0.67	0.0640
10-05	0.89	0.004						420	0.62	0.0760
								425	0.58	0.0787
								447	0.58	0.0906
								506	0.53	0.1004
								530	0.56	0.1126
								543	0.49	0.1188
								615	0.42	0.1324
								623	0.45	0.1356
								636	0.47	0.1411
								639	0.45	0.1424
								651	0.49	0.1477
								704	0.53	0.1539
								807	0.53	0.1851
								835	0.49	0.1985
								848	0.43	0.2040
								954	0.42	0.2301
								1308	0.28	0.2929
								1405	0.27	0.3075
								1803	0.18	0.3569
								1924	0.14	0.3687

NOTES: To convert runoff in cfs to in/hr, multiply by 0.05562. Runoff ended at 1512 on Oct. 10, 1968 with accumulated total of 0.38954 inches.



EVENT OF OCTOBER 9, 1968
CHICKASHA, OKLAHOMA WATERSHED C-1

CHICKASHA, OKLAHOMA WATERSHED C-2

LOCATION: Grady County, Oklahoma; SE 1/4, sec. 4, R. 8 W., T. 7 N., about 6 miles West and 4 miles North of Chickasha Oklahoma; Washita River Basin.

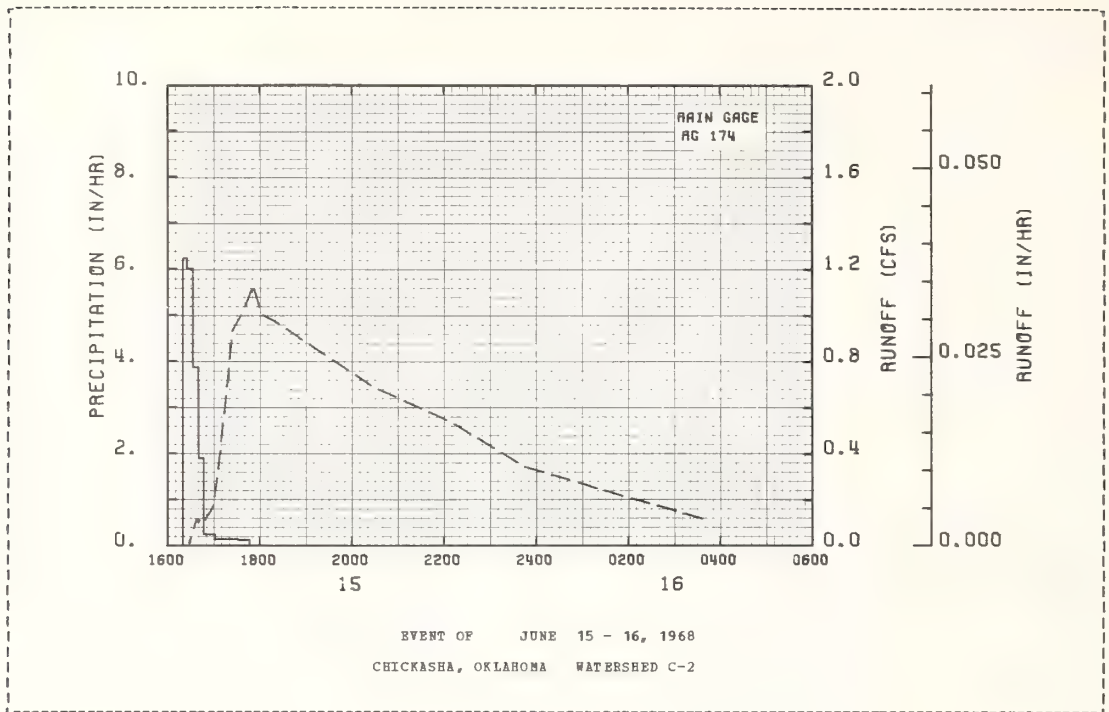
AREA: 32.54 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-2					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	2.42	0.89	0.90	2.21	4.16	4.10	3.92	2.64	2.85	1.85	4.45	0.70	31.09					
	O	0.0	0.0	0.0	0.0	0.004	0.175	0.0	0.001	0.0	0.0	0.0	0.180	0.360					
STA AV	P	0.85	0.93	1.38	2.89	2.96	3.35	1.74	3.03	3.48	1.34	2.09	0.79	24.83					
	O	0.0	0.0	0.0	0.028	0.001	0.077	0.0	0.004	0.006	0.003	0.0	0.026	0.146					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-15	0.034	6-15	0.031	6-15	0.058	6-15	0.131	6-15	0.169	6-15	0.175	6-15	0.175	6-15	0.175	6-15	0.175
MAXIMUMS FOR PERIOD OF RECORD																			
		4-12	0.099	4-12	0.075	4-12	0.110	6- 1	0.208	6- 1	0.246	6- 1	0.246	6- 1	0.246	6- 1	0.246	6- 1	0.332
		1967		1967		1967		1962		1962		1962		1962		1962		1962	

NOTES: Watershed conditions: This 32.5 acre watershed continued in mixed cropping. The north 15.5 acres and 0.2 acre drainage way was planted to wheat in the fall of 1967. The area was undisturbed after harvest in June 1968 until mid-September when it was moldboard plowed and prepared for wheat. Wheat was seeded during latter part of October, 1968. The south 16.8 acres were in cotton in 1967. The entire watershed area was used as pasture for cattle from December, 1967 until about March 1, 1968 when cattle were removed. The south 16.8 acres were planted to grain sorghum with 14 inch row spacing in early May 1968. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.31-1 and 69.31-3. Monthly precipitation values obtained from one weighting type rain gage, No. 174. Precipitation and runoff records began May 1, 1962. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968	SELECTED RUNOFF EVENT						CHICKASHA, OKLAHOMA		WATERSHED C-2		
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 15 - 16, 1968											
RG	174		RG	174							
6-15	0.0	0.0	6-15	1620	0.0	0.0	6-15	1627	0.0	0.0	
				1625	6.2404	0.52		1634	0.07	0.0001	
				1633	6.0001	1.32		1638	0.12	0.0003	
				1640	3.8571	1.77		1640	0.10	0.0004	
				1647	1.8857	1.99		1645	0.13	0.0007	
WATERSHED CONDITIONS:											
100% cropland. North					1702	0.2400	2.05	1648	0.11	0.0009	
15.53 acres and drainage					1732	0.1400	2.12	1655	0.15	0.0014	
channel in wheat. The					1747	0.1200	2.15	1700	0.18	0.0018	
south 16.79 acres planted								1705	0.31	0.0024	
to grain sorghum in 14 inch								1720	0.77	0.0065	
rows in early May.											
30 Day Antecedent Conditions:											
Rainfall		Runoff									
Date	(inches)	(inches)									
05-15	0.77	0.004									
05-21	0.52	0.0									
05-25	0.51	0.0									
05-29	0.03	0.0									
06-01	0.51	0.0									
06-05	0.78	0.0									
06-07	0.53	0.0	6-16								
06-10	0.03	0.0	341								
									0.11	0.1703	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03048. Runoff ended at 1128 on June 16, 1968 with accumulated total of 0.17476 inches.



CHICKASHA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 44.26 acres

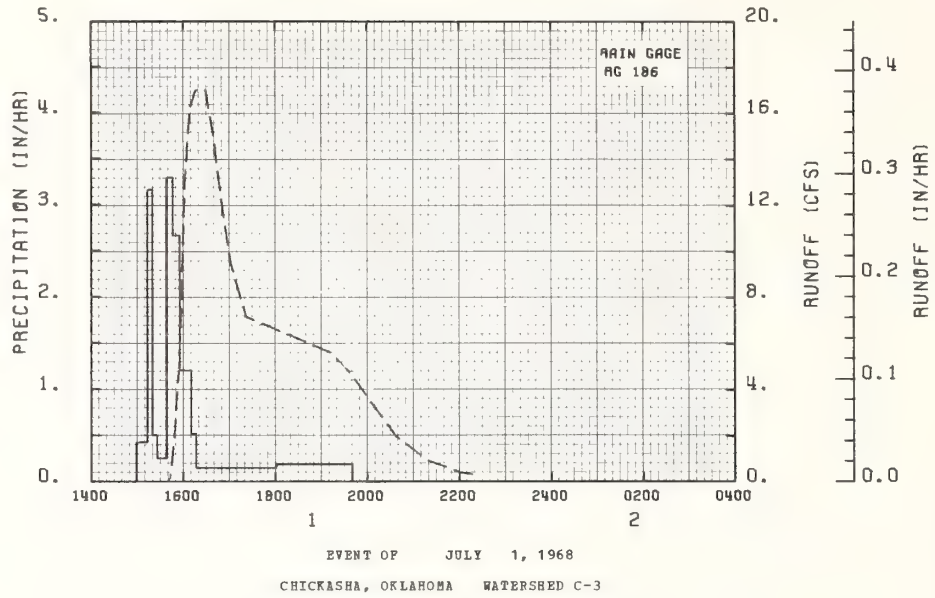
MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-3					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	2.52	1.11	1.83	1.65	4.26	3.23	3.44	1.37	2.96	2.32	4.30	0.75	29.74					
	O	0.050	0.017	0.132	0.0	0.210	1.569	0.866	0.006	0.111	0.442	0.587	0.0	3.990					
STA AV	P	1.09	0.92	1.89	3.92	2.74	2.14	2.96	3.76	3.46	1.45	1.33	0.74	26.39					
	O	0.017	0.007	0.077	0.677	0.091	0.565	0.569	0.971	0.341	0.113	0.147	0.0	3.575					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-15	0.418	6-15	0.355	6-15	0.538	7- 1	0.823	7- 1	0.835	6-15	0.846	6-15	0.846	6-15	0.846	6-15	0.846
MAXIMUMS FOR PERIOD OF RECORD																			
		4-12	0.428	4-12	0.373	4-12	0.618	8-29	1.029	8-29	1.093	4-12	1.110	4-12	1.333	8-21	1.768		
		1967		1967		1967		1966		1966		1967		1967		1966			

NOTES: Watershed conditions: Cropland, previously graded and smoothed for row irrigation. Entire watershed disked then moldboard plowed 10-12 inches deep in mid-December 1967. Spring preplanting tillage consisted of spring tooth, smoothing, incorporation of herbicide with disk and spring-tooth harrow, incorporated fertilizer, spring-tooth and spike tooth harrowed. Planted cotton first week of May. Replanted most all cotton second week of June. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Watershed area irrigated only one time during last week of June with average of approximately 1.0 inch of water. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.32-1 and 69.32-3. Monthly precipitation data obtained from two recording weighting type rain gages, No. 186 and Cotton Research Station gage. Precipitation and runoff records began September 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 SELECTED RUNOFF EVENT						CHICKASHA, OKLAHOMA WATERSHED C-3						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		

EVENT OF JULY 1, 1968												
RG	186		RG	186								
7- 1	0.0	0.0	7- 1	1459	0.0	0.0	7- 1	1539	0.0	0.0		
				1513	0.4286	0.10		1540	0.0	0.0		
				1520	3.1714	0.47		1541	0.02	0.0		
				1526	0.5000	0.52		1543	0.26	0.0001		
				1538	0.2500	0.57		1545	0.78	0.0005		
WATERSHED CONDITIONS:												
100% cropland. All water-				1546	3.3000	1.01		1547	1.53	0.0013		
sheds planted to row crop				1555	2.6667	1.41		1549	2.37	0.0029		
June 12-13. Replanted				1610	1.2000	1.71		1551	3.45	0.0049		
cotton in south field and				1617	0.5143	1.77		1554	4.79	0.0096		
soybeans in triangle on				1801	0.1442	2.02		1556	6.42	0.0135		
June 21. Rotary hoed all												
cotton in north field on				1940	0.1879	2.33		1558	8.09	0.0192		
June 28.								1600	10.62	0.0266		
								1602	12.88	0.0348		
								1604	13.93	0.0454		
								1607	15.42	0.0608		
30 Day Antecedent Conditions:												
	Rainfall	Runoff										
Date	(inches)	(inches)										
05-31	0.63	0.038						1609	16.21	0.0732		
06-01	0.82	0.520						1616	17.01	0.1168		
06-05	0.43	0.088						1622	17.01	0.1540		
06-07	0.38	0.115						1629	17.01	0.1986		
06-15	1.49	0.831						1639	15.04	0.2588		
06-16	0.11	0.015										
								1648	12.54	0.3047		
								1651	11.88	0.3185		
								1702	9.44	0.3624		
								1722	7.11	0.4239		
								1912	5.57	0.6843		
								1935	4.79	0.7287		
								2038	1.92	0.8077		
								2118	0.91	0.8288		
								2200	0.39	0.8390		
								2225	0.26	0.8420		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241. Runoff ended at 1413 on July 2, 1968 with an accumulated total of 0.84845 inches.



CHICKASHA, OKLAHOMA WATERSHED C-4

LOCATION: Grady County, Oklahoma; NE 1/4, sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

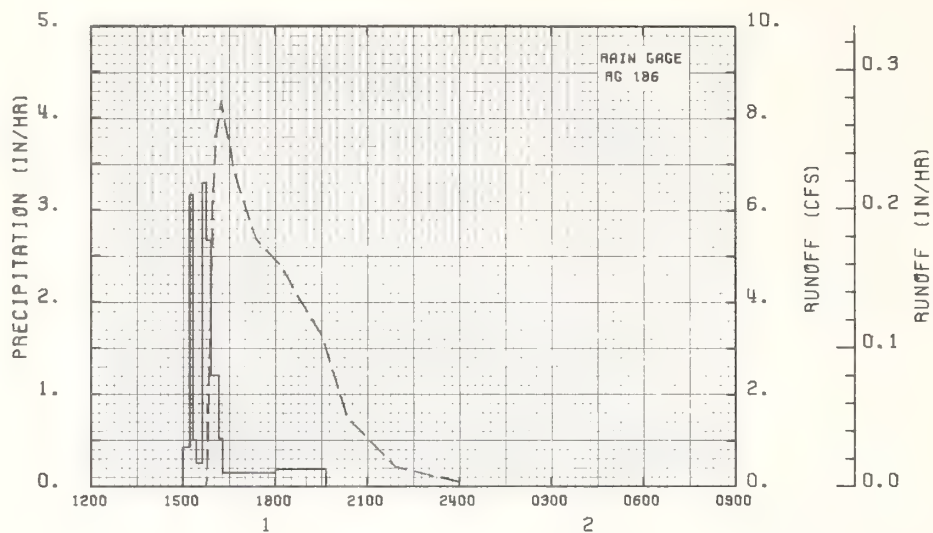
AREA: 29.93 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA		WATERSHED C-4			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	2.56	1.09	1.80	1.70	4.50	3.23	3.40	1.37	2.95	2.34	4.30	0.73	29.97					
	O	0.014	0.004	0.040	0.0	0.038	1.119	0.795	0.0	0.010	0.209	0.592	0.001	2.822					
STA AV	P	1.11	0.90	1.88	3.84	2.82	2.21	3.01	3.85	3.42	1.45	1.30	0.75	26.54					
	O	0.005	0.003	0.046	0.374	0.017	0.388	0.537	0.723	0.194	0.052	0.148	0.000	2.488					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval											
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days			
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1968		6-15	0.304	6-15	0.263	6-15	0.473	7- 1	0.761	7- 1	0.786	7- 1	0.786	7- 1	0.786	7- 1	0.786		
MAXIMUMS FOR PERIOD OF RECORD																			
		4-12	0.374	4-12	0.311	8-29	0.496	8-29	0.813	8-29	0.849	8-29	0.856	8-29	0.858	8-21	1.326		
		1967		1967		1966		1966		1966		1966		1966		1966			

NOTES: Watershed conditions: Cropland, previously graded and smoothed for row irrigation. Watershed area was mold-board plowed 10-12 inches deep in mid-December 1967. Preplanting tillage operations included disking and spring-tooth harrowing, use of land leveler to smooth area, incorporated use of herbicide with disk and spring-tooth harrow, and additional spring-tooth and spike-tooth harrowing for final seedbed preparation. Planted cotton May 6-8. Rotary hoed and harrowed, poor stand obtained, replanted in mid-June. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. Watershed area irrigated only one time during last week of June with approximately 1 inch of water applied. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.33-1 and 69.33-3. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighting type rain gages, Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968	SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA WATERSHED C-4							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 1 - 2, 1968												
RG 186			RG 186									
7- 1	0.0	0.0	7- 1	1459	0.0	0.0	7- 1	1545	0.0	0.0		
				1513	0.4286	0.10		1547	0.16	0.0001		
				1520	3.1714	0.47		1549	0.94	0.0007		
				1526	0.5000	0.52		1551	2.57	0.0025		
				1538	0.2500	0.57		1553	2.97	0.0058		
WATERSHED CONDITIONS:				1546	3.3000	1.01		1555	4.22	0.0095		
100% cropland. Water-				1555	2.6667	1.41		1557	4.94	0.0148		
shed planted to cotton				1610	1.2000	1.71		1558	6.18	0.0177		
June 12-14. Rotary hoed				1617	0.5143	1.77		1605	7.58	0.0445		
June 20. Replanted por-				1801	0.1442	2.02		1615	8.35	0.0888		
tion of field June 22-												
24, rotary hoed remainder				1940	0.1879	2.33		1623	7.83	0.1245		
of watershed June 22-28.								1633	7.33	0.1658		
30 Day Antecedent Conditions:								1639	6.86	0.1897		
Rainfall Runoff								1652	6.40	0.2369		
Date	(inches)	(inches)						1723	5.34	0.3380		
05-31	0.64	0.003										
06-01	0.83	0.322						1812	4.76	0.4746		
06-05	0.36	0.005						1848	4.05	0.5619		
06-07	0.38	0.074						1932	3.26	0.6508		
06-15	1.56	0.707						2021	1.49	0.7151		
06-16	0.10	0.011						2156	0.41	0.7649		
								2400	0.09	0.7818		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03314. Antecedent precipitation amounts are from Thiessen weighted rainfall using rain gages 186 and 187. Runoff ended at 1158 on July 2, 1968 with accumulated total of 0.78636 inches.



EVENT OF JULY 1 - 2, 1968
CHICKASHA, OKLAHOMA WATERSHED C-4

CHICKASHA, OKLAHOMA WATERSHED C-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 12.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED C-5										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	2.50	1.03	1.76	1.67	4.50	3.11	3.16	1.38	2.82	2.33	4.22	0.74	29.22			
	Q	0.0	0.0	0.265	0.0	0.029	0.207	0.018	0.0	0.0	0.011	0.072	0.0	0.602			
STA AV	P	1.10	0.86	1.83	3.72	2.80	2.26	2.43	4.95	3.36	1.42	1.27	0.75	26.74			
	Q	0.0	0.0	0.125	0.416	0.007	0.052	0.006	0.101	0.005	0.003	0.018	0.0	0.733			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval									
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours		12 Hours		1 Day		2 Days		8 Days	
								Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-15	0.069	6-15	0.062	6-15	0.106	6-15	0.174	6-15	0.196	6-15	0.206	6-15	0.207	3-19	0.246
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.280	4-12	0.250	4-12	0.409	4-12	0.673	4-12	0.775	4-12	0.812	4-12	0.935	4-9	1.180
		1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: Watershed planted to wheat in fall of 1967 and harvested for grain in June 1968. Watershed tandem disked 4-5 inches deep June 24 and July 18. Chiseled 6-8 inches deep parallel with field July 23 and diagonally with field July 25. Watershed tandem disked 4-6 inches on September 11, spring-tooth harrowed 5-6 inches deep on Oct. 2, spring-tooth harrowed 4-5 inches deep on Oct. 18, and spike-tooth harrowed on Oct. 22. Watershed was planted to wheat Oct. 23, 1968. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two weighting recording type rain gages, Numbers 185 and 187. Precipitation and runoff records began May 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 13.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-6																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																
1968	P	2.50	1.03	1.76	1.67	4.50	3.09	3.15	1.39	2.79	2.34	4.22	0.74	29.18																
	O	0.0	0.044	0.450	0.0	0.025	0.283	0.027	0.0	0.0	0.081	0.225	0.0	1.135																
STA & V	P	1.10	0.86	1.81	3.74	2.80	2.25	2.42	4.95	3.35	1.42	1.27	0.75	26.72																
	O	0.0	0.015	0.207	0.387	0.006	0.071	0.009	0.217	0.021	0.020	0.056	0.0	1.009																
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																														
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval										1 Day		2 Days		8 Days								
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								Date	Vol.		
1968		10- 9	0.116	6-15	0.071	6-15	0.130	6-15	0.232	6-15	0.266	6-15	0.279	6-15	0.283	3-18	0.408													
MAXIMUMS FOR PERIOD OF RECORD																														
		8-28	0.305	4-12	0.259	4-12	0.398	4-12	0.634	4-12	0.744	4-12	0.787	4-12	0.895	4- 9	1.050													
		1965		1967		1967		1967		1967		1967		1967		1967														

NOTES: Watershed conditions: Watershed planted to wheat in fall of 1967 and harvested for grain in June 1968. Watershed tandem disked 4-5 inches deep June 24 and July 18. Chiseled 6-8 inches deep parallel with field July 23 and diagonally with field July 25. Watershed tandem disked 4-6 inches on September 11, spring-tooth harrowed 5-6 inches deep on October 2, spring-tooth harrowed 4-5 inches deep on October 18, and spike-tooth harrowed on October 22. Watershed was planted to wheat October 23, 1968. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.35-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two weighting recording type rain gages, Numbers 185 and 187. Precipitation and runoff records began May 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

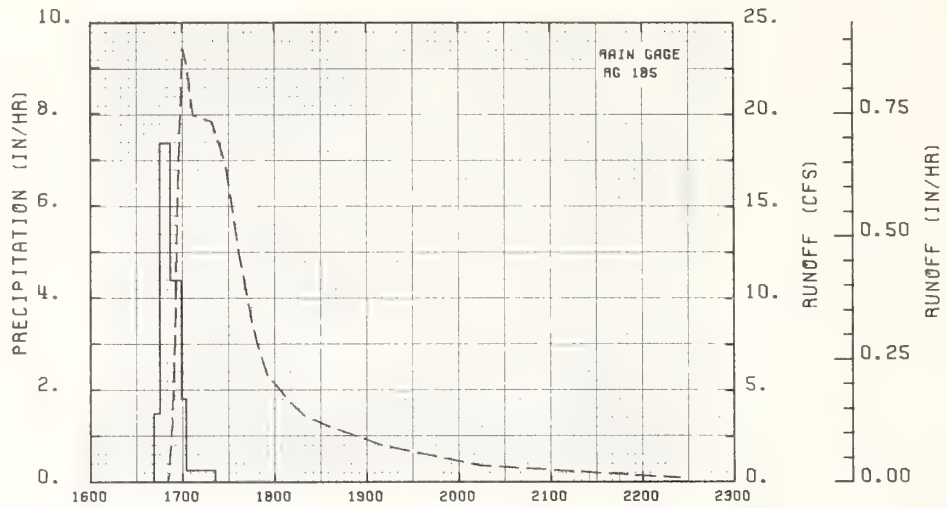
AREA: 26.52 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA		WATERSHED C-7	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1968	P	2.48	0.99	1.73	1.64	4.47	3.05	3.08	1.39	2.75	2.35	4.21	0.75	28.89			
	O	0.0	0.0	0.021	0.0	0.017	0.945	0.372	0.0	0.061	0.492	0.243	0.0	2.151			
STA AV	P	1.09	0.84	1.78	3.70	2.78	2.25	2.41	4.92	3.34	1.41	1.27	0.74	26.54			
	O	0.0	0.019	0.010	0.653	0.015	0.298	0.224	0.646	0.152	0.123	0.061	0.0	2.200			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
	Maximum Discharge Date		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.		
1968	6-15	0.882	6-15	0.573	6-15	0.710	6-15	0.835	6-15	0.848	6-15	0.850	6-15	0.850	6-15	0.850	
MAXIMUMS FOR PERIOD OF RECORD																	
	4-12 1967	0.957	4-12 1967	0.637	4-12 1967	0.824	4-12 1967	0.944	4-12 1967	0.969	4-12 1960	1.050	4-10 1967	1.228	4- 9 1967	1.634	

NOTES: Watershed conditions: Cropland, north portion of watershed was summer fallowed and planted to alfalfa in September. South portion of watershed was planted to soy beans and grain sorghum. South field was diked 6-8 inches deep October 29, chiseled 12-14 inches deep October 30 and moldboard plowed 10-12 inches deep November 12. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.36-1 and 69.36-3. Monthly precipitation data from Thiessen weighted rainfall gauge from two recording weighting type rain gauges, Numbers 185 and 187. Precipitation and runoff records began May 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

1968 SELECTED RUNOFF EVENT						CHICKASHA, OKLAHOMA WATERSHED C-7						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 15, 1968												
RG 185			RG 185									
6-15	0.0	0.0	6-15	1641	0.0	0.0	6-15	1650	0.0	0.0		
				1645	1.4997	0.10		1651	0.44	0.0001		
				1652	7.3723	0.96		1653	3.12	0.0024		
				1659	4.3714	1.47		1655	7.85	0.0092		
				1702	1.7999	1.56		1657	16.56	0.0245		
WATERSHED CONDITIONS:												
100 % cropland. South				1721	0.2526	1.64		1700	23.58	0.0620		
portion of watershed spring								1703	22.43	0.1049		
tooth harrowed May 29 and								1705	20.95	0.1321		
planted to soybeans and								1707	19.88	0.1574		
sorghum June 12. North								1719	19.53	0.3050		
portion of watershed fallow,												
spring tooth harrowed in												
April, 1968.								1728	17.20	0.4081		
								1737	12.25	0.4907		
								1745	8.69	0.5430		
								1748	7.65	0.5582		
								1755	5.81	0.5876		
30 Day Antecedent Conditions:												
Date	Painfall	Runoff										
(inches)	(inches)	(inches)										
05-15	0.21	0.0										
05-21	0.45	0.0										
05-25	0.77	0.007										
05-29	0.14	0.0										
05-31	0.68	0.009										
06-01	0.76	0.095										
06-05	0.26	0.0										
06-07	0.32	0.0										
								2224	0.22	0.8463		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740. Antecedent precipitation amounts are from Thiessen weighted rainfall using rain gauges 185 and 187. Runoff ended at 1200 on June 16, 1968 with accumulated total of 0.85006 inches.



EVENT OF JUNE 15, 1968
CHICKASHA, OKLAHOMA WATERSHED C-7

CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.28 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED C-8							
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	2.45	1.08	1.80	1.69	4.56	3.01	3.16	1.37	2.61	2.45	4.14	0.76	29.08
	O	0.0	0.0	0.0	0.0	0.0	0.075	0.091	0.0	0.0	0.003	0.0	0.0	0.169
STA AV	P	1.08	0.88	1.81	3.21	2.87	2.26	2.45	4.86	3.31	1.41	1.26	0.75	26.14
	O	0.0	0.0	0.021	0.135	0.004	0.022	0.117	0.326	0.193	0.001	0.0	0.0	0.818
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	6-15	0.047	6-15	0.032	6-15	0.044	7- 1	0.076	7- 1	0.090	7- 1	0.091	7- 1	0.091
MAXIMUMS FOR PERIOD OF RECORD														
	9-19	0.257	9-19	0.190	9-19	0.249	8-29	0.374	8-29	0.430	8-29	0.436	9-19	0.610
1965	1965		1965		1965		1966		1966		1966		1965	1966

NOTES: Watershed conditions: Cropland, watershed was drilled to alfalfa in fall of 1965 and remained in alfalfa throughout 1968. Because of poor soil moisture conditions alfalfa was harvested only three times during 1968. Watershed chiseled 10-12 inches deep on 3-foot spacing in October. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.37-1. Maps - revised composite, p. 69.7-21; topography, p. 69.37-5 of foregoing reference. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighting type rain gages, numbers 185 and 188. Precipitation and runoff records began April 1, 1965. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-1

LOCATION: Caddo County, Oklahoma; NE 1/4, sec. 21, T. 8 N., R. 9 W., about 4-3/4 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 17.76 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED R-1								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	2.02	1.26	1.08	2.83	4.50	2.15	4.31	2.18	3.09	2.04	4.97	1.17	31.60
	O	0.000	0.0	0.0	0.000	0.003	0.001	0.001	0.002	0.001	0.001	0.007	0.0	0.017
STA AV	P	0.73	0.92	1.27	3.45	2.91	4.23	1.50	3.41	3.94	1.54	2.14	0.84	26.88
	O	0.000	0.000	0.000	0.022	0.007	0.004	0.000	0.006	0.006	0.001	0.003	0.000	0.050

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-2, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,400 pounds of grass, 1,000 pounds of weeds and 2,600 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.38-1 and 69.38-2. Precipitation data obtained from recording rain gage No. 189. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-2

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N., R. 9 W., about 4-1/2 miles North and 2-3/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 24.08 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-2	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	1.72	1.03	0.71	2.58	4.48	2.08	3.97	2.08	2.80	1.95	4.51	1.02	28.93	
	O	0.004	0.0	0.0	0.010	0.019	0.006	0.004	0.013	0.002	0.007	0.016	0.002	0.082	
STA AV	P	0.67	0.87	1.19	3.39	2.88	4.20	1.45	3.33	3.85	1.51	2.07	0.81	26.21	
	O	0.001	0.000	0.002	0.064	0.014	0.029	0.001	0.038	0.039	0.009	0.013	0.004	0.213	

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,800 pounds of grass, 1,100 pounds of weeds, and 2,500 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 190. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-3

LOCATION: Caddo County, Oklahoma; NE 1/4, sec/ 21. T. 8 N., R. 9 W., about 4-1/2 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 25.84 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED R-3							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.72	1.06	0.78	2.56	4.28	1.94	3.84	2.05	2.66	1.92	4.38	0.99	28.18
	O	0.0	0.0	0.0	0.002	0.004	0.005	0.000	0.004	0.000	0.003	0.003	0.000	0.021
STA AV	P	0.67	0.87	1.19	3.37	2.87	4.15	1.44	3.31	3.77	1.49	2.05	0.80	25.98
	O	0.000	0.000	0.001	0.029	0.006	0.012	0.000	0.017	0.019	0.004	0.006	0.001	0.096

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-2 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,300 pounds of grass, 900 pounds of weeds and 2,400 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.40-1. Precipitation data obtained from recording rain gage No. 191. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-4

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N. R. 9 W., about 4-1/2 miles North and 2-1/2 miles West of Verden, Oklahoma; Washita River Basin.

AREA: 18.12 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED R-4	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P	1.99	0.96	0.74	2.68	4.67	2.05	3.78	2.23	2.79	1.99	4.71	1.10	29.69
	O	0.0	0.0	0.0	0.002	0.008	0.002	0.001	0.004	0.0	0.001	0.002	0.000	0.020
STA AV	P	0.72	0.85	1.20	3.43	2.94	4.25	1.42	3.40	3.84	1.59	2.10	0.82	26.57
	O	0.0	0.0	0.000	0.091	0.005	0.022	0.000	0.027	0.023	0.004	0.005	0.000	0.177

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-2 and R-3. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses, and some climax grass species, however, the range condition class is poor. The watershed was properly grazed during the year. Vegetative sampling in Dec. 1968 showed an average of 1,900 pounds of grass, 800 pounds of weeds and 2,600 pounds of mulch per acre. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.41-1 and 69.41-2. Precipitation data obtained from recording rain gage No. 192. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see U.S. Weather Bureau records at Chickasha, Okla.

CHICKASHA, OKLAHOMA WATERSHED R-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 23.72 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-5									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual									
1968	P	2.72	1.10	1.73	2.42	4.24	2.30	4.32	1.11	3.04	2.44	4.55	1.27	31.24									
	O	0.0	0.0	0.171	0.0	0.035	0.048	0.017	0.0	0.012	0.0	0.023	0.0	0.306									
STA AV	P	1.40	0.60	2.04	4.52	4.39	2.19	3.08	2.80	3.64	1.80	1.84	0.89	29.18									
	O	0.0	0.0	0.086	0.537	0.242	0.024	0.052	0.0	0.004	0.0	0.008	0.0	0.953									
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																							
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1968		3-19	0.080	3-19	0.069	3-19	0.099	3-19	0.122	3-19	0.125	3-19	0.126	3-19	0.127	3-14	0.170						
MAXIMUMS FOR PERIOD OF RECORD																							
		4-12	0.879	4-12	0.577	4-12	0.721	4-12	0.790	4-12	0.806	4-12	0.810	4-10	0.947	4- 9	1.066						
		1967		1967		1967		1967		1967		1967		1967		1967							

NOTES: Watershed conditions: Native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1968 was good. The vegetative cover in November 1968, based on 25 clipped samples uniformly spaced, averaged 2,600 pounds per acre of standing vegetation and 2,600 pounds per acre of mulch. This watershed was within the same pasture area as Watershed R-6, however, was subjected to a slightly heavier grazing rate. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 69.42-1; Maps - Topography, 1966, p. 69.42-3 of foregoing reference; Revised Composite, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, numbers 195 and 196. Precipitation and runoff records began July 1, 1966. For long-time precipitation records, see U. S. Weather Bureau records at Chickasha, Oklahoma.

CHICKASHA, OKLAHOMA WATERSHED R-6

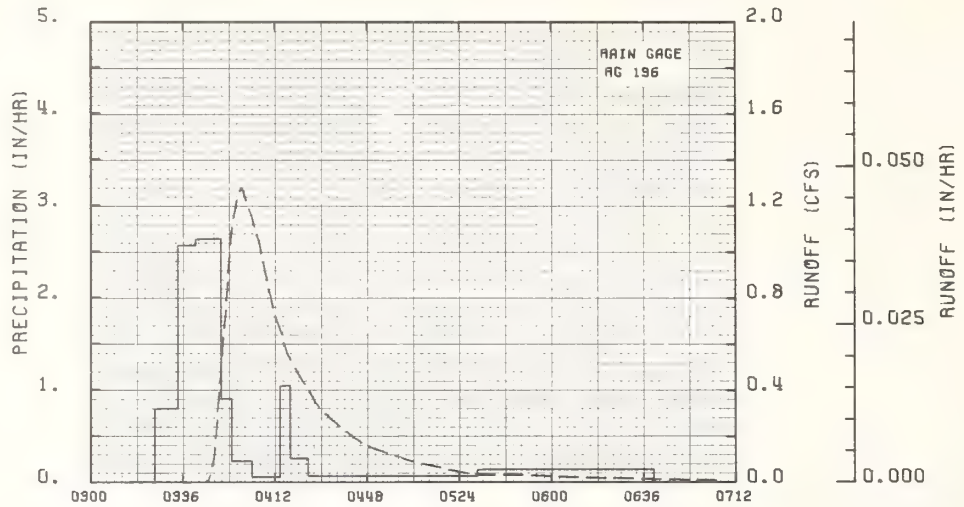
LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8-1/2 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.22 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-6														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual														
1968	P	2.74	1.19	1.81	2.36	4.34	2.41	4.32	1.10	3.15	2.38	4.54	1.20	31.54														
	O	0.001	0.0	0.113	0.005	0.034	0.034	0.020	0.0	0.025	0.008	0.040	0.0	0.280														
STA AV	P	1.41	0.65	2.01	4.44	4.55	2.25	3.08	2.82	3.65	1.79	1.83	0.40	28.87														
	O	0.000	0.0	0.056	0.555	0.052	0.017	0.047	0.012	0.019	0.003	0.013	0.0	0.775														
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																												
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days										
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.									
1968		3-19	0.061	3-19	0.050	3-19	0.071	3-19	0.082	3-19	0.083	3-19	0.083	3-19	0.083	3-19	0.096	3-19	0.110									
MAXIMUMS FOR PERIOD OF RECORD																												
		4-12	1.066	4-12	0.658	4-12	0.808	4-12	0.879	4-12	0.889	4-12	0.892	4-11	0.989	4-10	1.098											
		1967		1967		1967		1967		1967		1967		1967		1967												

NOTES: Watershed conditions: Native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during the year was good. The vegetative cover in November 1968, based on 25 clipped samples uniformly spaced, averaged 3,300 pounds per acre of standing vegetation and 3,200 pounds per acre of mulch. This watershed was in the same pasture area as Watershed R-5, however, was subjected to a slightly lighter grazing rate. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.43-1 and 69.43-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, numbers 196 and 197. Precipitation and runoff records began July 1, 1966. For long-time precipitation records, see U. S. Weather Bureau records at Chickasha, Oklahoma.

1968 SELECTED RUNOFF EVENT							CHICKASHA, OKLAHOMA WATERSHED R-6						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF SEPTEMBER 4, 1968													
9- 4	RG	196	9- 4	RG	196		9- 4						
	0.0	0.0		325	0.0	0.0		345	0.0	0.0			
				334	0.8000	0.12		346	0.01	0.0			
				341	2.5714	0.42		347	0.05	0.0			
				351	2.6400	0.86		348	0.10	0.0001			
				355	0.9000	0.92		349	0.19	0.0002			
WATERSHED CONDITIONS:													
100% rangeland. Vegetation				403	0.2250	0.95		351	0.51	0.0006			
consisting of both tall and				414	0.0545	0.96		353	0.77	0.0014			
mid-tall grasses. Vegeta-				418	1.0500	1.03		355	1.09	0.0025			
tive sampling in November				425	0.2571	1.06		357	1.22	0.0039			
1968 showed an average				531	0.0636	1.13		359	1.28	0.0054			
of 2,900 pounds of standing													
grass, 400 pounds of weeds,				640	0.1391	1.29		403	1.15	0.0084			
and 3,200 pounds of mulch								406	1.03	0.0104			
per acre. Area was subject								408	0.92	0.0116			
to continuous grazing,								410	0.82	0.0126			
slightly in excess of								412	0.72	0.0136			
optimum. Range condition													
class was good to excellent.								415	0.63	0.0148			
								417	0.55	0.0155			
								421	0.47	0.0168			
								425	0.40	0.0179			
								428	0.34	0.0185			
30 Day Antecedent Conditions:													
Rainfall Runoff													
Date	(inches)	(inches)											
08-11	0.03	0.0											
08-13	0.05	0.0						433	0.28	0.0195			
08-15	0.83	0.0						443	0.19	0.0210			
08-30	0.19	0.0						449	0.15	0.0216			
09-03	1.11	0.0						457	0.12	0.0222			
								505	0.09	0.0228			
								517	0.06	0.0233			
								530	0.03	0.0238			
								547	0.03	0.0241			
								608	0.02	0.0245			
								644	0.01	0.0248			
								731	0.0	0.0250			



EVENT OF SEPTEMBER 4, 1968
CHICKASHA, OKLAHOMA WATERSHED R-6

CHICKASHA, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 N., R. 6 W., about 8 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin.

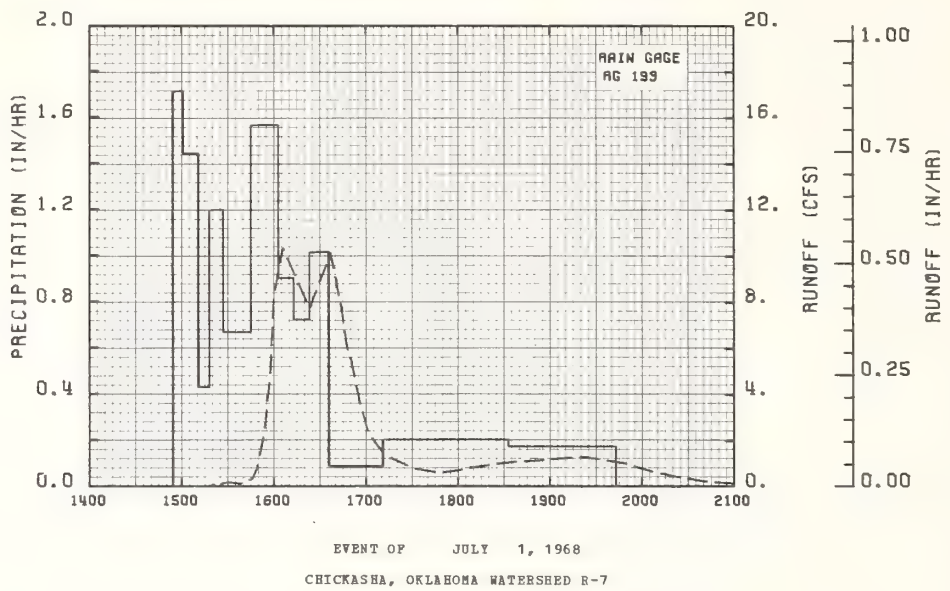
AREA: 19.19 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-7											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	2.62	1.08	1.74	2.28	4.25	2.62	4.39	0.97	3.01	2.32	4.17	1.24	30.69											
	O	0.291	0.014	0.630	0.112	0.453	0.617	0.900	0.0	0.475	0.429	0.732	0.0	4.653											
STA AV	P	1.35	0.58	2.04	4.21	4.38	2.26	3.04	2.88	3.48	1.64	1.72	0.87	28.44											
	O	0.146	0.007	0.315	1.211	0.559	0.324	0.480	0.205	0.414	0.158	0.244	0.0	4.064											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
Maximum Discharge														Maximum Volume for Selected Time Interval											
Date	Rate	1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968	9- 4	1.204	9- 4	0.434	7- 1	0.484	7- 1	0.624	7- 1	0.627	7- 1	0.627	5-25	0.712	7- 1	0.639									
MAXIMUMS FOR PERIOD OF RECORD																									
	4-12	1.512	4-12	0.939	4-12	1.130	4-12	1.322	4-12	1.360	4-12	1.377	4-10	1.735	4- 9	2.266									
	1967		1967		1967		1967		1967		1967		1967		1967										

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Range condition class during the year was poor. The vegetative cover in November 1968, based on 25 clipped samples uniformly spaced, averaged 1,600 pounds per acre of standing vegetation and 1,500 pounds per acre of mulch. This watershed was within the same pasture area as Watershed W-8. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.44-1 and 69.44-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, number 193 and 194. Precipitation and runoff records began July 1, 1966. For long-time precipitation records, see U. S. Weather Bureau records at Chickasha, Oklahoma.

1968 SELECTED RUNOFF EVENT						CHICKASHA, OKLAHOMA WATERSHED R-7							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF JULY 1, 1968													
7- 1	RG 193	0.0	7- 1	RG 193	0.0	0.0	7- 1	1515	0.0	0.0			
				1501	1.7143	0.20		1517	0.02	0.0			
				1511	1.4400	0.44		1520	0.06	0.0001			
				1518	4.4286	0.49		1529	0.17	0.0010			
				1527	1.2000	0.67		1537	0.10	0.0020			
WATERSHED CONDITIONS:													
100% rangeland, formerly				1545	0.6667	0.87	1546	0.34	0.0037				
cultivated but returned				1603	1.5667	1.34	1549	0.81	0.0052				
to range use during the				1613	1.9000	1.49	1554	2.43	0.0122				
1930-40 period after				1623	0.7200	1.61	1558	5.22	0.0254				
severe erosion. Grass				1636	1.0154	1.83	1600	8.12	0.0369				
cover primarily little													
bluestem with a large				1711	0.0857	1.88	1603	9.42	0.0596				
percent of bare ground				1833	0.2049	2.16	1606	10.35	0.0851				
between grass bunches.				1943	0.1714	2.36	1623	7.71	0.2148				
Vegetative sampling in							1637	10.11	0.3214				
November 1968 showed an							1644	7.71	0.3754				
average of 1,500 pounds													
of standing grass, 100							1647	6.21	0.3934				
pounds of weeds, and 1,500							1650	5.54	0.4086				
pounds of mulch per acre.							1654	4.19	0.4254				
Areas subject to continuous							1701	2.43	0.4454				
grazing. Range condition							1706	1.88	0.4547				
class was poor.													
30 Day Antecedent Conditions:													
Rainfall			Runoff										
Date	(inches)	(inches)											
06-01	0.91	0.347											
06-04	0.06	0.0											
06-05	0.41	0.026											
06-07	0.48	0.168											
06-15	0.18	0.001											
06-16	0.55	0.076											
06-25	0.03	0.0											

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05168. Antecedent precipitation amounts are from Thiessen weighted rainfall using rain gages 193 and 194. Runoff ended at 0150 on July 2, 1968 with accumulated total of 0.62659 inches.



CHICKASHA, OKLAHOMA WATERSHED R-8

LOCATION: Grady County, Oklahoma; NW 1/4 sec. 13, T. 7 W., R. 6 W., about 8-1/2 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin.

AREA: 27.55 acres

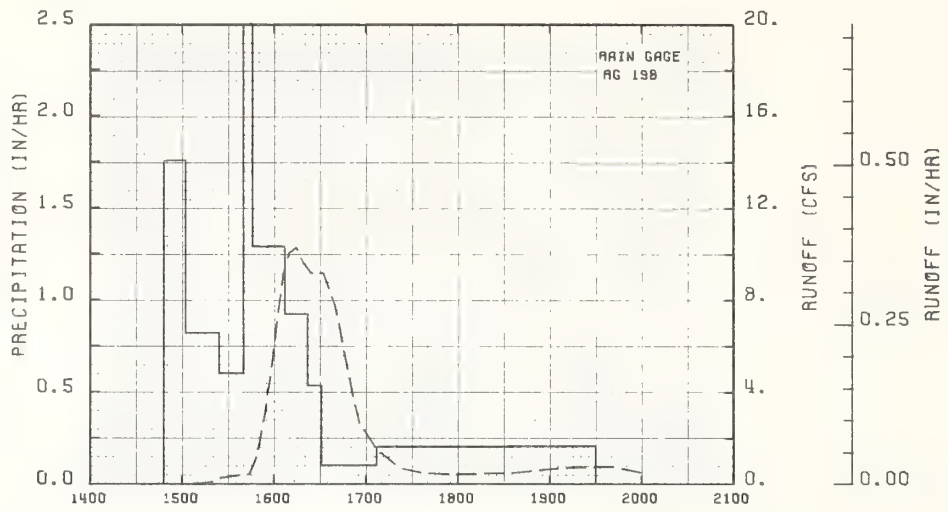
MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED R-8											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	2.72	1.34	2.04	2.25	4.36	2.62	4.43	0.95	3.13	2.29	4.27	1.13	31.53					
	O	0.080	0.002	0.268	0.052	0.226	0.363	0.534	0.003	0.346	0.195	0.279	0.003	2.351					
STA AV	P	1.40	0.72	2.10	4.24	4.58	2.32	3.09	2.84	3.61	1.71	1.76	0.87	29.23					
	O	0.040	0.001	0.134	0.733	0.270	0.132	0.297	0.098	0.195	0.075	0.093	0.001	2.068					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		9- 4	0.751	9- 4	0.301	7- 1	0.320	7- 1	0.382	7- 1	0.384	7- 1	0.385	7- 1	0.385	7- 1	0.385	7- 1	0.385
MAXIMUMS FOR PERIOD OF RECORD																			
		4-12	1.163	4-12	0.699	4-12	0.840	4-12	0.957	4-12	0.980	4-12	1.002	4-11	1.153	4-10	1.398		
		1967		1967		1967		1967		1967		1967		1967		1967			

NOTES: Watershed conditions: Eighty-six percent of the area was cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Although the watershed has not been reseeded to grass, the predominant grass species is little bluestem. Range condition class during the year was poor. The vegetative cover in November 1968, based on 25 clipped samples uniformly spaced, averaged 1,300 pounds per acre of standing vegetation and 1,600 pounds per acre of mulch. This watershed was within the same pasture area as Watershed R-7. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.45-1 and 69.45-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, numbers 197 and 198. Precipitation and runoff records began July 1, 1966. For long-time precipitation records, see U. S. Weather Bureau records at Chickasha, Oklahoma.

NOTE: Due to error in the watershed area factor used to determine previously published runoff rates (in/hr) and accumulations (in.) the values reported in USDA Misc. Pubs. 1226 and 1262 should be multiplied by 0.670177.

1968 SELECTED RUNOFF EVENT													
CHICKASHA, OKLAHOMA WATERSHED R-8													
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF					
Date	Rainfall	Runoff		Date	Time	Intensity		Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)		Mo-Day	of Day	(in/hr)		Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 1, 1968													
7- 1	RG 198			7- 1	RG 198			7- 1					
	0.0	0.0			1448	0.0	0.0		1456	0.0	0.0		
					1502	1.7571	0.41		1501	0.0	0.0		
					1524	0.8182	0.71		1504	0.0	0.0		
					1540	0.6000	0.87		1510	0.05	0.0001		
					1546	2.5000	1.12		1515	0.07	0.0003		
WATERSHED CONDITIONS: 100% rangeland, formerly cultivated but returned to range use during the 1930-40 period after severe erosion. Grass cover primarily native bluestem with a large percent of ground between grass bunches. Vegetative sampling in November 1968 showed an average of 900 pounds of standing grass, 400 pounds of weeds, and 1,600 pounds of mulch per acre. Area subject to continuous grazing. Range condition class was poor to fair.					1607	1.2858	1.57		1521	0.13	0.0007		
					1622	0.9200	1.80		1525	0.28	0.0012		
					1631	0.5333	1.88		1531	0.34	0.0023		
					1707	0.1000	1.94		1538	0.40	0.0039		
					1829	0.2049	2.22		1544	0.47	0.0055		
					1930	0.2066	2.43		1549	1.28	0.0080		
									1554	3.05	0.0140		
									1558	4.89	0.0240		
									1603	7.68	0.0436		
									1606	9.15	0.0588		
30 Day Antecedent Conditions: Rainfall Runoff Date (inches) (inches)									1610	10.07	0.0819		
									1614	10.31	0.1063		
									1619	9.60	0.1362		
									1624	9.15	0.1644		
									1632	9.15	0.2085		
									1640	7.68	0.2488		
									1652	3.65	0.2885		
									1656	2.62	0.2960		
									1707	1.48	0.3093		
									1722	0.67	0.3190		
06-01 thru													
06-11	1.88	0.315											
06-15	0.14	0.0							1736	0.47	0.3239		
06-16	0.56	0.500							1751	0.43	0.3280		
06-25	0.04	0.0							1813	0.47	0.3340		
									1832	0.47	0.3393		
									1908	0.71	0.3524		
									1938	0.76	0.3658		
									2003	0.43	0.3748		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03600. Thiessen weighted rainfall using rain gages 197 and 198. Runoff ended at 1156 on July 3, 1968 with accumulated total of 0.3848 inches.



EVENT OF JULY 1, 1968
CHICKASHA, OKLAHOMA WATERSHED R-8

SONORA, TEXAS WATERSHED W-14

LOCATION: Sutton County, Texas; gauging station on Water Street at Sonora city limit; Lowery Draw, East Port Devils River, Devils River, Rio Grande River Basin.

AREA: 30720.00 acres 48.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-14	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	1.76	1.32	2.17	4.38	3.52	1.37	2.16	0.55	1.54	0.31	2.71	0.0	21.81	
	O	0.0	0.0	0.0	0.003	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	
STA AV	P	0.91	1.20	0.83	2.55	3.31	1.63	1.49	1.22	4.22	1.14	1.48	0.61	20.60	
	O	0.0	0.0	0.0	0.000	0.017	0.0	0.0	0.0	0.120	0.0	0.0	0.0	0.138	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		4- 9	0.001	4- 9	0.001	4- 9	0.001	4- 9	0.003	4- 9	0.003	4- 9	0.003	4- 8	0.003
														4- 2	0.003
MAXIMUMS FOR PERIOD OF RECORD															
		9-23	0.060	9-23	0.060	9-23	0.120	9-23	0.220	9-23	0.270	9-23	0.380	9-23	0.610
		1964		1964		1964		1964		1964		1964		1964	0.800

NOTES: Watershed conditions: 0.4% caliche and paved roads; 0.3% urban area; 0.3% cropland; 99.0% rangeland. Cropland seeded to oats in fall for winter grazing. Rangeland moderately to severely overgrazed during the year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.1-7. Precipitation data by Thiessen method using rain gauges 1, 1-A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY AIR TEMPERATURE (degrees F)														SONORA, TEXAS WATERSHED W-14											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	44	33	64	52	51	32	65	48	83	49	85	65	91	72	93	65	80	60	85	57	81	63	58	33	
2	49	39	62	32	65	36	65	55	87	61	87	60	90	66	93	65	81	63	90	61	80	61	63	28	
3	49	43	61	33	65	32	73	54	87	67	79	55	82	67	94	68	92	66	91	63	79	43	58	29	
4	45	32	64	35	48	35	73	37	86	50	82	59	85	65	94	67	95	68	81	57	70	39	61	24	
5	47	31	65	34	47	38	67	34	80	51	85	63	85	61	95	67	95	65	77	59	81	47	59	31	
6	51	29	67	33	65	40	72	41	77	64	89	70	87	57	94	69	85	66	86	55	79	45	58	30	
7	29	15	65	29	71	44	77	53	85	65	88	69	87	64	97	67	89	66	86	61	65	43	58	25	
8	29	21	59	33	70	54	82	57	82	57	85	69	89	70	99	70	95	65	85	67	57	32	58	23	
9	51	28	57	33	73	46	81	53	80	63	85	67	89	67	99	70	95	66	85	62	53	32	59	32	
10	49	28	53	45	75	49	69	49	77	56	88	70	89	68	99	69	91	58	77	57	60	38	59	40	
11	48	33	55	41	73	33	68	52	73	53	95	68	91	64	98	70	89	55	79	60	60	29	61	45	
12	47	33	54	38	50	31	71	54	69	54	97	67	91	66	99	66	88	53	85	65	65	32	65	56	
13	52	20	52	30	61	29	79	57	83	62	97	67	89	71	98	68	86	57	88	67	72	48	61	26	
14	61	25	34	30	65	40	79	60	83	67	95	66	88	69	96	71	67	59	86	66	70	53	56	22	
15	63	33	44	29	75	49	75	50	85	70	95	72	90	70	94	73	88	61	85	68	67	46	57	26	
16	61	30	51	28	74	46	77	62	85	64	95	72	92	71	94	72	96	68	83	57	71	38	64	36	
17	59	42	50	39	69	53	85	63	77	58	94	64	95	69	93	71	95	63	81	45	65	46	65	52	
18	57	39	46	39	68	57	85	64	77	47	88	63	94	67	91	70	86	52	75	36	57	36	59	44	
19	39	33	57	40	71	51	82	58	77	51	90	61	93	68	93	68	89	59	80	43	62	30	60	26	
20	44	36	69	37	69	38	73	51	78	52	90	61	89	66	93	70	89	67	81	50	65	35	55	34	
21	55	37	69	29	38	31	76	59	80	62	87	61	92	66	94	69	89	70	79	63	70	38	63	49	
22	55	34	49	25	59	24	83	63	85	68	90	61	92	69	94	67	87	70	77	50	69	46	57	34	
23	55	41	47	22	66	29	84	48	87	68	89	67	93	68	94	68	89	70	83	47	69	49	51	17	
24	66	28	62	27	68	43	70	38	85	67	89	66	92	69	94	65	87	62	83	47	67	36	59	27	
25	73	39	69	34	77	44	75	45	92	67	91	64	91	67	92	63	77	57	80	41	71	38	67	35	
26	72	45	71	35	76	51	87	52	94	67	91	67	91	67	93	63	81	48	82	46	64	43	70	38	
27	63	54	70	43	68	56	87	59	85	63	89	60	94	63	93	66	83	49	81	50	50	29	67	43	
28	59	57	63	42	67	58	87	59	84	56	93	70	94	65	91	67	82	51	78	43	59	29	62	31	
29	68	57	52	32	69	56	70	44	90	63	93	73	94	67	91	61	81	55	84	47	59	36	71	34	
30	64	58			72	58	75	47	90	70	93	74	94	68	91	67	82	55	85	51	50	29	67	42	
31	69	56			77	56			89	68			93	69	78	65			82	61				59	21
AV.	54	36	58	34	65	43	76	52	83	60	89	65	90	67	94	67	87	60	82	55	66	40	60	33	
MEAN	45.4		46.3		54.6		64.3		71.9		77.8		78.8		80.8		73.9		68.8		53.3		47.1		
STA AV	58	32	59	34	71	43	80	54	84	60	89	65	93	67	92	67	86	62	79	52	70	45	60	34	

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 1630 of the day shown. STA AV based on 5 yr record period.

SONORA, TEXAS WATERSHED W-14												
1968	DAILY PRECIPITATION (inches)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.35	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.03	0.47	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.01	0.66	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0
5	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.03	0.0	0.05	0.0	0.0
6	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	1.40	0.0	0.14	0.0	0.0	0.0	0.0	0.0
8	0.60	0.0	0.0	0.38	0.0	0.03	0.39	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.32	1.45	1.18	0.0	0.0	0.0	0.0	0.01	0.71	0.0
10	0.0	0.11	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.03	0.51	0.0	0.63	0.0	0.0	0.24	0.0	0.0	0.0	0.0
12	0.0	0.01	0.0	0.20	0.09	0.0	0.0	0.08	0.0	0.0	0.0	0.0
13	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.04	0.09	0.0	0.0	0.0
14	0.0	0.29	0.0	0.0	0.0	0.0	0.01	0.0	0.67	0.0	0.00	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0
17	0.0	0.28	0.0	0.0	0.0	1.08	0.0	0.0	0.0	0.0	0.0	0.0
18	0.09	0.33	0.0	1.32	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0
19	0.34	0.0	0.62	0.03	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0
20	0.64	0.0	0.37	0.11	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.39	0.0
27	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.08	0.0	0.0	0.68	0.0
28	0.08	0.07	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0
TOTAL	1.76	1.32	2.17	4.38	3.52	1.37	2.16	0.55	1.54	0.31	2.71	0.0
STA AV	0.91	1.20	0.83	2.55	3.31	1.63	1.49	1.22	4.22	1.14	1.48	0.61

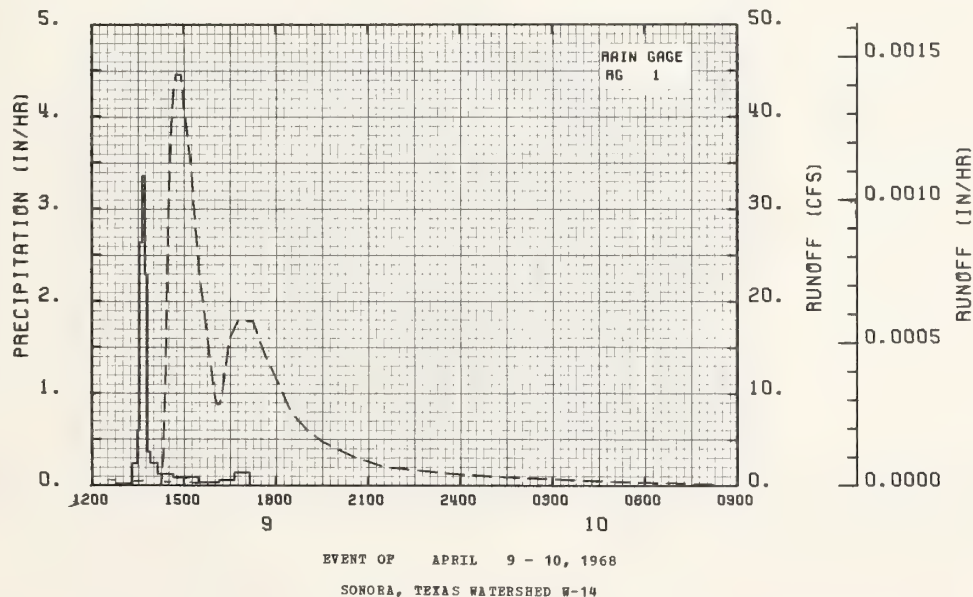
NOTES: Precipitation values are Thiessen weighted average of rain gages 1, 1-A, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr period.

SONORA, TEXAS WATERSHED W-14												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	4.134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.1441	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.000	0.017	0.0	0.0	0.0	0.120	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.000775. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr period.

1968 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED W-14				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 9 - 10, 1968										
RG	1		RG	1						
4- 9	0.0	0.0	4- 9	1247	0.0	0.0	4- 9	1415	0.0	0.0
				1319	0.0187	0.01		1420	3.54	0.0
				1329	0.2400	0.05		1425	13.86	0.0
				1334	0.6000	0.10		1430	29.18	0.0001
				1339	2.6400	0.32		1435	37.05	0.0002
WATERSHED CONDITIONS:										
0.4% caliche and paved roads;				1344	3.3600	0.60		1440	42.64	0.0003
0.3% urban area; 0.3% crop-				1349	2.2800	0.79		1445	44.57	0.0004
land; 99.0% rangeland.				1354	0.3600	0.82		1455	44.57	0.0006
Cropland seeded to oats in				1409	0.2400	0.88		1500	41.35	0.0007
fall for winter grazing.				1419	0.1200	0.90		1515	34.60	0.0010
Rangeland moderately to										
severely overgrazed during				1439	0.1200	0.94		1520	30.49	0.0011
the year depending on				1509	0.0800	0.98		1525	26.82	0.0012
climatic conditions and				1529	0.0900	1.01		1530	23.27	0.0013
stocking rates.				1609	0.0300	1.03		1545	16.54	0.0015
				1639	0.0600	1.06		1600	9.71	0.0016
				1709	0.1400	1.13		1605	8.74	0.0016
								1610	8.74	0.0016
								1615	10.00	0.0016
								1630	16.07	0.0017
								1645	17.86	0.0018
								1715	17.86	0.0021
								1730	15.33	0.0022
								1745	13.33	0.0023
								1800	11.62	0.0024
								1830	7.83	0.0026
								1900	6.00	0.0027
								1930	4.69	0.0028
								2030	3.09	0.0029
								2130	1.99	0.0030
								2230	1.63	0.0031
								2400	1.17	0.0032
							4-10	130	0.87	0.0032
								300	0.65	0.0032
								430	0.44	0.0032
								600	0.29	0.0032
								730	0.18	0.0032
								915	0.0	0.0032

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000032.



SONORA, TEXAS WATERSHED S-9

LOCATION: Sutton County, Texas; gaaging station on Water Street at Sonora city limit; Lowrey Draw, East Fort Devils River, Devils River, Rio Grande River Basin.

AREA: 1774.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-9																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	1.83	1.23	2.54	3.64	1.86	1.49	3.37	0.70	2.47	0.28	2.87	0.0	22.28																	
	Q	0.001	0.0	0.008	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014																	
STA AV	P	0.91	1.22	0.86	2.23	2.94	1.66	1.44	1.14	4.61	1.19	1.24	0.60	20.05																	
	Q	0.000	0.0	0.001	0.001	0.009	0.017	0.0	0.0	0.386	0.0	0.0	0.0	0.413																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge				1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days															
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1968		4-18	0.010	4-18	0.002	3-20	0.002	3-20	0.003	3-20	0.004	3-19	0.006	3-19	0.007	3-17	0.007														
MAXIMUMS FOR PERIOD OF RECORD																															
		9-23	1.190	9-23	0.570	9-23	0.806	9-23	1.040	9-23	1.070	9-23	1.270	9-22	1.450	9-19	2.680														
		1964		1964		1964		1964		1964		1964		1964		1964															

NOTES: Watershed conditions: 0.3% caliche roads; 99.7% rangeland. Rangeland fair condition to moderately overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.2-5. Precipitation data by Thiessen method using rain gages 1 and 1-A. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968		DAILY PRECIPITATION (inches)					SONORA, TEXAS WATERSHED S-9						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.0	0.0	0.10	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0
	2	0.0	0.0	0.0	0.0	0.0	0.06	1.50	0.0	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.0	0.0	0.0
	5	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.07	0.0	0.07	0.0	0.0
	6	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8	0.61	0.0	0.0	0.33	0.0	0.02	0.40	0.0	0.0	0.0	0.0	0.0
	9	0.0	0.0	0.33	1.09	0.77	0.0	0.0	0.0	0.0	0.0	0.81	0.0
	10	0.0	0.11	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.05	0.51	0.0	0.79	0.0	0.0	0.17	0.0	0.0	0.0	0.0
	12	0.0	0.02	0.0	0.23	0.11	0.0	0.0	0.22	0.0	0.0	0.0	0.0
	13	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0
	14	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0
	17	0.0	0.16	0.0	0.0	0.0	1.14	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.13	0.29	0.0	1.00	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0
	19	0.36	0.0	0.93	0.06	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0
	20	0.64	0.0	0.47	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	23	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.43	0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.69	0.0
	28	0.08	0.08	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30	0.01		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0
	31	0.0		0.0		0.0		0.0	0.03		0.0		0.0
TOTAL		1.83	1.23	2.54	3.64	1.86	1.49	3.37	0.70	2.47	0.28	2.87	0.0
STA AV		0.91	1.22	0.86	2.23	2.94	1.66	1.44	1.14	4.61	1.19	1.24	0.60

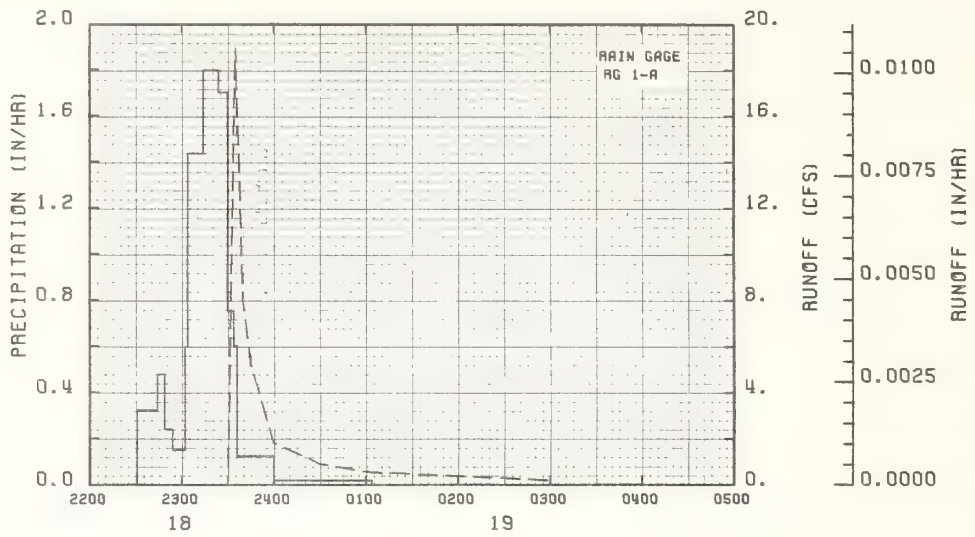
NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14, (70.001). Precipitation values are Thiessen weighted average of rain gages 1 and 1-A. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED S-9												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.077	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.118	0.201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.037	0.0	0.453	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0012	0.0	0.0184	0.0136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.001	0.0	0.008	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.000	0.0	0.001	0.001	0.009	0.017	0.0	0.0	0.386	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013417. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED S-9												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 18 - 19, 1968												
4-18	RG 1-A 0.0	0.0	4-18	RG 2231	1-A 0.0	0.0	4-18	2330	0.0	0.0		
				2244	0.3231	0.07		2335	18.96	0.0009		
				2249	0.4799	0.11		2340	8.05	0.0013		
				2254	0.2400	0.13		2345	5.19	0.0015		
				2302	0.1500	0.15		2400	1.79	0.0017		
				WATERSHED CONDITIONS:								
0.3% caliche roads:												
99.7% rangeland:												
Rangeland fair condition												
to moderately overgrazed												
during a year depending												
on climatic conditions												
and stocking rates.												
				2304	0.5999	0.17	4-19	30	0.89	0.0020		
				2314	1.4401	0.41		100	0.54	0.0021		
				2324	1.7999	0.71		300	0.18	0.0023		
				2330	1.6999	0.88						
				2334	0.7500	0.93						
				2336	0.6001	0.95						
				2400	0.1250	1.00						
4-19				104	0.0187	1.02						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.



EVENT OF APRIL 18 - 19, 1968

SONORA, TEXAS WATERSHED S-9

SONORA, TEXAS WATERSHED S-10

LOCATION: Sutton County, Texas; gauging station on flood detention reservoir, 6 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 5392.00 acres 8.42 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-10															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	1.77	1.26	2.15	4.03	3.36	1.74	1.72	0.33	1.56	0.32	2.58	0.0	20.81															
	O	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.063															
STA AV	P	0.92	1.17	0.85	2.44	3.15	1.77	1.24	1.18	4.17	1.07	1.46	0.59	20.01															
	O	0.0	0.0	0.0	0.0	0.035	0.017	0.0	0.0	0.274	0.0	0.0	0.0	0.326															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		5- 9	0.026	5- 9	0.016	5- 9	0.023	5- 9	0.030	5- 9	0.040	5- 9	0.057	5- 9	0.062	5- 4	0.063												
MAXIMUMS FOR PERIOD OF RECORD																													
		9-23	0.810	9-23	0.720	9-23	0.950	9-23	1.110	9-23	1.150	9-23	1.230	9-23	1.520	9-19	1.930												
		1964		1964		1964		1964		1964		1964		1964		1964													
NOTES: Watershed conditions: Caliche roads - 0.4%; rangeland - 99.6%. Range condition poor to fair, with moderate to severe overgrazing during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.3-6. Thiessen weighted rainfall using rain gages 1, 1-A, 2, 3, 4, 5, 6, and 7. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.																													

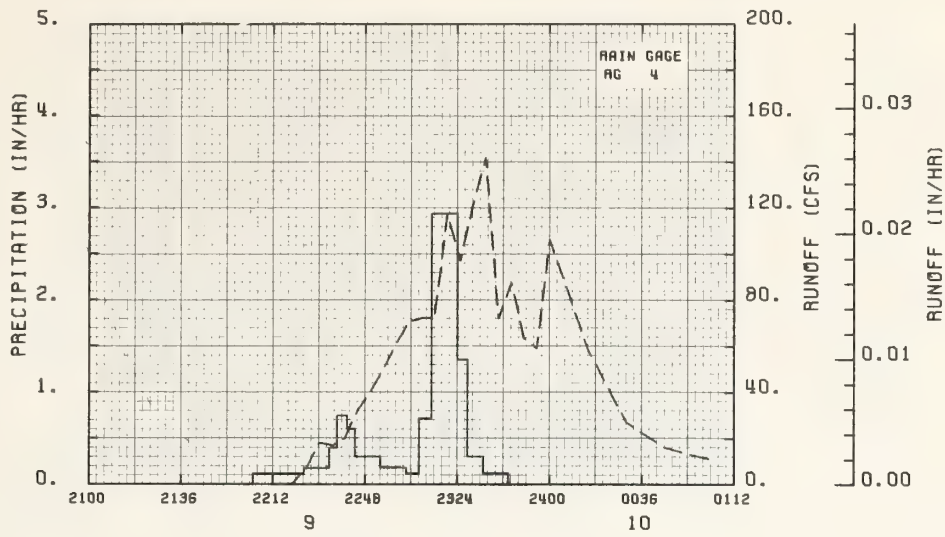
1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED S-10													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.0	0.34	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
2	0.0	0.0	0.0	0.0	0.0	0.03	0.34	0.0	0.0	0.0	0.0	0.0	0.0														
3	0.0	0.0	0.0	0.0	0.0	0.02	0.56	0.0	0.0	0.0	0.0	0.0	0.0														
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0														
5	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.01	0.0	0.06	0.0	0.0	0.0														
6	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
7	0.0	0.0	0.0	0.0	1.24	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0														
8	0.58	0.0	0.0	0.37	0.0	0.03	0.28	0.0	0.0	0.0	0.0	0.0	0.0														
9	0.0	0.0	0.39	1.21	1.08	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0														
10	0.0	0.11	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
11	0.0	0.02	0.55	0.0	0.80	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0														
12	0.0	0.02	0.0	0.17	0.07	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0														
13	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0														
14	0.0	0.30	0.0	0.0	0.0	0.0	0.02	0.0	0.66	0.0	0.02	0.0	0.0														
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0														
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0														
17	0.0	0.25	0.0	0.0	0.0	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
18	0.12	0.31	0.0	1.29	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0														
19	0.33	0.0	0.49	0.03	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0														
20	0.67	0.0	0.33	0.10	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0														
21	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
23	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0														
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
26	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0														
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.65	0.0	0.0														
28	0.05	0.06	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0														
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
30	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0														
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0														
TOTAL	1.77	1.26	2.15	4.03	3.36	1.74	1.72	0.33	1.56	0.32	2.58	0.0	0.0														
STA AV	0.92	1.17	0.85	2.44	3.15	1.77	1.24	1.18	4.17	1.07	1.46	0.59	0.59														

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED S-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	4.603	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	8.552	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	1.133	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.4609	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.035	0.017	0.0	0.0	0.274	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.004414. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED S-10												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 9 - 10, 1968												
5- 9	PG 0.0	0.0	5- 9	RG 2204	0.0	0.0	5- 9	2220	1.09	0.0		
				2224	0.1200	0.04		2225	7.07	0.0001		
				2234	0.1800	0.07		2230	17.94	0.0004		
				2237	0.4001	0.09		2235	16.85	0.0007		
				2241	0.7500	0.14		2240	20.12	0.0010		
				2244	0.6000	0.17		2245	32.08	0.0015		
				2254	0.3000	0.22		2250	40.23	0.0021		
				2304	0.1800	0.25		2255	50.02	0.0029		
				2309	0.1200	0.26		2300	60.89	0.0038		
				2314	0.7200	0.32		2305	70.68	0.0049		
				2324	2.9399	0.81		2310	72.31	0.0060		
				2328	1.3500	0.90		2315	71.77	0.0071		
				2334	0.3000	0.93		2320	117.44	0.0089		
				2344	0.1200	0.95		2325	96.78	0.0104		
								2330	121.24	0.0123		
								2335	141.90	0.0145		
								2340	71.77	0.0156		
								2345	87.53	0.0169		
								2350	63.07	0.0179		
								2355	58.72	0.0188		
								2400	106.02	0.0204		
								15	58.18	0.0231		
								30	26.64	0.0243		
								45	15.77	0.0250		
								100	11.42	0.0255		
								115	8.70	0.0259		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000184.



SONORA, TEXAS WATERSHED S-11

LOCATION: Sutton County, Texas; gaging station on flood detention reservoir, 4 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 10787.00 acres 16.85 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-11											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	1.81	1.38	1.99	4.53	4.18	1.53	2.38	0.37	1.23	0.31	2.71	0.0	22.43											
	O	0.0	0.0	0.001	0.075	0.303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.380											
STA AV	P	0.94	1.18	0.81	2.68	3.53	1.68	1.61	1.24	4.08	1.12	1.42	0.61	20.90											
	O	0.0	0.0	0.000	0.028	0.138	0.009	0.0	0.0	0.184	0.0	0.0	0.0	0.358											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1968		5-10	0.137	5-10	0.093	5-10	0.125	5- 9	0.152	5- 9	0.159	5- 9	0.172	5- 9	0.217	5- 3	0.303								
MAXIMUMS FOR PERIOD OF RECORD																									
		9-23	0.390	9-23	0.310	9-23	0.550	9-23	0.770	9-23	0.780	9-23	0.780	9-23	0.910	9-19	1.250								
		1964		1964		1964		1964		1964		1964		1964		1964									

NOTES: Watershed conditions: Caliche roads - 0.4%; rangeland - 99.6%. Range condition poor to fair; moderately to severely overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.4-8. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968		DAILY PRECIPITATION (inches)						SONORA, TEXAS WATERSHED S-11						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.39	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.01	0.31	0.0	0.0	0.0	0.0	0.0	
	3	0.0	0.0	0.0	0.0	0.0	0.00	0.80	0.0	0.0	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
	5	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	1.99	0.0	0.24	0.0	0.0	0.0	0.0	0.0	
	8	0.59	0.0	0.0	0.46	0.0	0.02	0.37	0.0	0.0	0.0	0.0	0.0	
	9	0.0	0.0	0.31	1.41	1.18	0.0	0.0	0.0	0.0	0.02	0.68	0.0	
	10	0.0	0.12	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.02	0.58	0.0	0.69	0.0	0.0	0.20	0.0	0.0	0.0	0.0	
	12	0.0	0.00	0.0	0.18	0.07	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
	13	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.01	0.08	0.0	0.0	0.0	
	14	0.0	0.27	0.0	0.0	0.0	0.0	0.02	0.0	0.72	0.0	0.00	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	
	17	0.0	0.33	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0	0.0	0.0	
	18	0.11	0.35	0.0	1.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	19	0.33	0.0	0.42	0.03	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	
	20	0.69	0.0	0.34	0.11	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.38	0.0	
	27	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.02	0.0	0.0	0.73	0.0	
	28	0.06	0.07	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65	0.0	
	31	0.0		0.0		0.0		0.0	0.05		0.0		0.0	
	TOTAL	1.81	1.38	1.99	4.53	4.18	1.53	2.38	0.37	1.23	0.31	2.71	0.0	
	STA AV	0.94	1.18	0.81	2.68	3.53	1.68	1.61	1.24	4.08	1.12	1.42	0.61	

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation values are Thiessen weighted average of rain gages 5, 6, 7, 8, 9, 10, and 11. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

SONORA, TEXAS WATERSHED S-11												
1968 MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	38.707	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	13.650	0.181	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	78.139	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	20.349	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	10.582	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.650	9.767	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0210	1.1333	4.4315	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.001	0.075	0.303	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.000	0.028	0.138	0.009	0.0	0.0	0.184	0.0	0.0	0.0

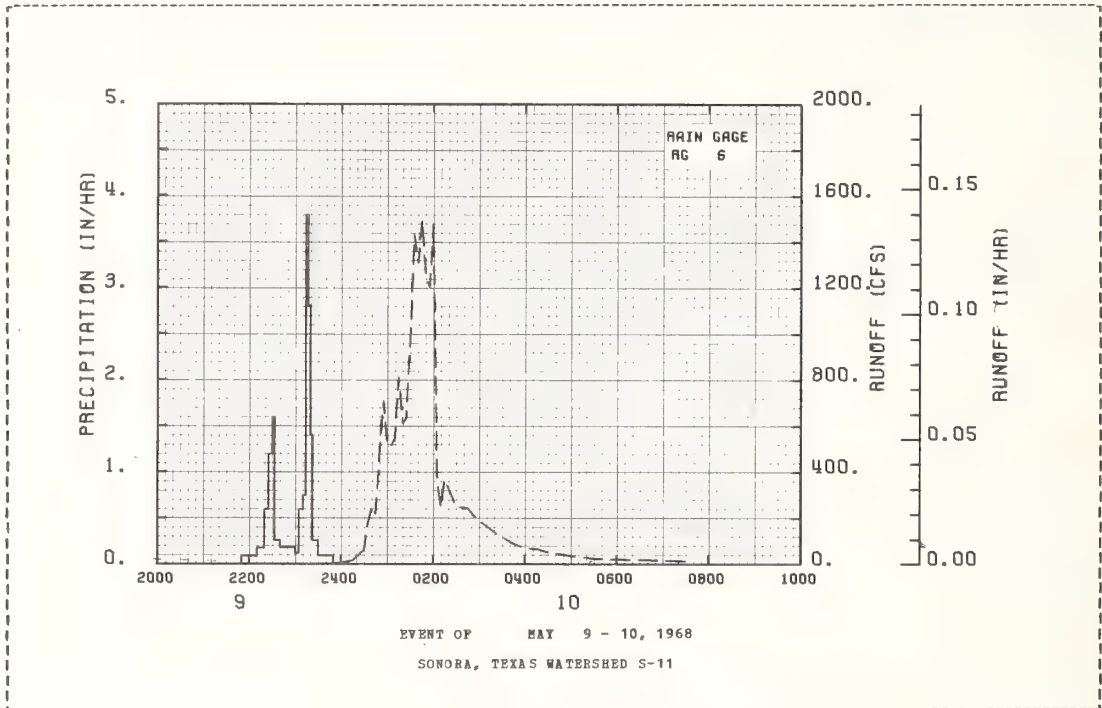
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002206. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

SONORA, TEXAS WATERSHED S-11												
1968 SELECTED RUNOFF EVENT												
ANTECEDENT CONDITIONS				RAINFALL				RUNOFF				
Date	Rainfall	Runoff		Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)		Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 9 - 10, 1968												
5- 9	RG 0.0	0.0		5- 9	2150	0.0	0.0	5- 9	2330	0.0	0.0	
					2210	0.0900	0.03		2400	8.70	0.0004	
					2220	0.1800	0.06	5-10	15	18.49	0.0008	
					2225	0.6000	0.11		30	64.17	0.0023	
					2230	1.1999	0.21		35	178.38	0.0037	
WATERSHED CONDITIONS:												
Caliche roads - 0.4%;												
rangeland - 99.6%. Range												
condition poor to fair;												
moderately to severely												
overgrazed during a year												
depending on climatic												
conditions and stocking												
rates.												
					2233	1.6004	0.29		40	252.34	0.0056	
					2240	0.2571	0.32		45	217.54	0.0073	
					2300	0.1800	0.38		50	474.23	0.0109	
					2305	0.1200	0.39		55	710.26	0.0163	
					2310	0.6000	0.44		100	532.97	0.0204	
					2314	0.7500	0.49		105	509.04	0.0243	
					2317	3.7998	0.68		110	552.55	0.0285	
					2320	2.7998	0.82		115	812.50	0.0347	
					2323	1.3999	0.89		120	610.19	0.0394	
					2330	0.2571	0.92		125	637.39	0.0443	
					2350	0.0900	0.95		130	964.78	0.0517	
									135	1432.49	0.0627	
									140	1306.31	0.0727	
									145	1495.57	0.0842	
									150	1235.61	0.0937	
									155	1202.98	0.1029	
									200	1477.08	0.1142	
									205	383.95	0.1171	
									210	244.73	0.1190	
									215	366.55	0.1218	
									230	249.08	0.1275	
									245	240.38	0.1330	
									300	185.99	0.1373	
									315	149.01	0.1407	
									330	115.30	0.1434	
									345	85.93	0.1454	
									400	67.44	0.1470	
									415	63.09	0.1485	
									430	48.95	0.1496	
									500	33.72	0.1511	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092.

1968 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED S-11				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 9 - 10, 1968 (CONTINUED)										
							5-10	530	22.84	0.1521
								600	19.58	0.1530
								730	11.96	0.1546

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000092.



SONORA, TEXAS WATERSHED S-12

LOCATION: Sutton County, Texas; gauging station on flood detention reservoir, 2 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 2801.00 acres 4.38 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-12																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																
1968	P	1.67	1.35	1.80	4.68	3.87	1.27	2.42	0.89	1.36	0.34	2.56	0.0	22.19																
	Q	0.0	0.0	0.0	0.344	0.479	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.826																
STA AV	P	0.89	1.19	0.77	2.73	3.53	1.46	1.71	1.25	4.03	1.14	1.39	0.58	20.66																
	Q	0.0	0.0	0.0	0.083	0.266	0.000	0.017	0.0	0.231	0.0	0.0	0.0	0.598																
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																														
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		2 Days		8 Days																
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date														
1968		5- 9	0.279	5- 9	0.212	5- 9	0.285	5- 9	0.342	5- 9	0.357	5- 9	0.387	5- 9	0.427	5- 3	0.479													
MAXIMUMS FOR PERIOD OF RECORD																														
		9-23	1.200	9-23	0.790	9-23	1.000	9-23	1.080	9-23	1.090	9-23	1.090	9-23	1.150	9-19	1.620													
		1964		1964		1964		1964		1964		1964		1964		1964														

NOTES: Watershed conditions: Paved roads - 0.2% of the area; rangeland - 99.8%. Range conditions poor to fair, with moderate to severe overgrazing during a year depending on climatic conditions and stocking rates. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.5-7. Thiessen weighted rainfall using rain gages 8, 10, 11, 12, and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, approximately 18 miles south of Sonora, Texas.

1968		DAILY PRECIPITATION (inches)						SONORA, TEXAS WATERSHED S-12						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	0.38	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.01	0.41	0.0	0.0	0.0	0.0	0.0	
	3	0.0	0.0	0.0	0.0	0.0	0.01	0.58	0.0	0.0	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
	5	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.07	0.0	0.04	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	1.82	0.0	0.30	0.0	0.0	0.0	0.0	0.0	
	8	0.63	0.0	0.0	0.34	0.0	0.03	0.60	0.0	0.0	0.0	0.0	0.0	
	9	0.0	0.0	0.23	1.81	1.40	0.0	0.0	0.0	0.0	0.0	0.66	0.0	
	10	0.0	0.11	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.02	0.46	0.0	0.42	0.0	0.0	0.17	0.0	0.0	0.0	0.0	
	12	0.0	0.0	0.0	0.20	0.10	0.0	0.0	0.07	0.0	0.0	0.0	0.0	
	13	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.08	0.05	0.0	0.0	0.0	
	14	0.0	0.25	0.0	0.0	0.0	0.0	0.00	0.0	0.64	0.0	0.0	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	
	17	0.0	0.35	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	
	18	0.03	0.34	0.0	1.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	19	0.31	0.0	0.48	0.03	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	
	20	0.59	0.0	0.34	0.12	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.35	0.0	
	27	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.37	0.0	0.0	0.61	0.0	
	28	0.08	0.07	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	
TOTAL		1.67	1.35	1.80	4.68	3.87	1.27	2.42	0.89	1.36	0.34	2.56	0.0	
STA AV		0.89	1.19	0.77	2.73	3.53	1.46	1.71	1.25	4.03	1.14	1.39	0.58	

NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation values are Thiessen weighted average of rain gages 8, 10, 11, 12, and 13. Records began May 1961, part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED S-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.518	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	5.237	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	27.073	12.495	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	2.259	33.680	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	4.469	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.247	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.806	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	10.397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	1.3512	1.8193	0.0082	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.344	0.479	0.002	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.083	0.266	0.000	0.017	0.0	0.231	0.0	0.0	0.0

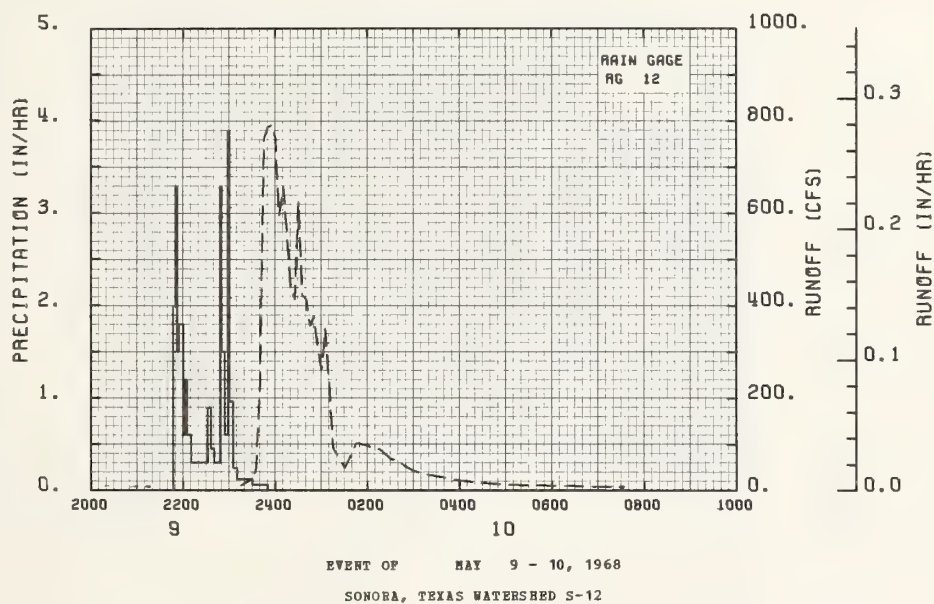
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.008498. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED S-12												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 9 - 10, 1968												
5- 9	RG 12 0.0	0.004	5- 9	RG 12	0.0	0.0	5- 9	2315	11.58	0.0		
				2147	0.0	0.0		2330	26.55	0.0023		
				2150	1.9999	0.10		2335	49.43	0.0038		
				2152	3.3008	0.21		2340	233.57	0.0107		
				2154	1.4997	0.26		2345	760.31	0.0332		
				2200	1.7999	0.44		2350	786.58	0.0564		
				2202	0.6001	0.46		2355	790.53	0.0797		
				2205	1.1999	0.52		2400	761.72	0.1022		
				2210	0.6000	0.57		5	593.68	0.1197		
				2220	0.3000	0.62	5-10	10	656.94	0.1391		
				2232	0.3000	0.68		15	558.09	0.1556		
				2236	0.9000	0.74		20	430.71	0.1683		
				2240	0.4500	0.77		25	413.48	0.1805		
				2248	0.3000	0.81		30	624.46	0.1990		
				2250	3.2993	0.92		35	421.11	0.2114		
				2254	1.5000	1.02		40	412.35	0.2236		
				2258	0.6000	1.06		45	355.87	0.2341		
				2300	3.8991	1.19		50	377.05	0.2452		
				2305	0.9601	1.27		55	308.70	0.2543		
				2310	0.2400	1.29		100	261.82	0.2620		
				2330	0.1200	1.33		105	350.78	0.2723		
				2350	0.0600	1.35		110	233.01	0.2792		
								115	91.79	0.2819		
								130	49.43	0.2863		
								145	102.52	0.2954		
								200	95.75	0.3039		
								215	88.97	0.3118		
								230	68.35	0.3178		
								245	56.49	0.3228		
								300	41.24	0.3265		
								315	35.02	0.3296		
								330	30.22	0.3323		
								400	21.18	0.3361		
								430	15.82	0.3389		
								500	12.43	0.3411		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000354.

1968 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED S-12					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 9 - 10, 1968 (CONTINUED)											
									730	7.06	0.3473

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000354.



SONORA, TEXAS WATERSHED S-13

LOCATION: Sutton County, Texas; gaging station on flood detention reservoir, 0.5 mi. SE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 686.00 acres 1.07 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED S-13																			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																			
1968	P	1.65	1.45	2.21	4.52	3.02	1.27	2.55	0.62	1.46	0.32	2.87	0.0	21.93																			
	O	0.0	0.0	0.006	0.355	0.120	0.0	0.003	0.0	0.002	0.0	0.0	0.0	0.486																			
STA AV	P	0.96	1.29	0.79	2.68	3.24	1.48	1.42	1.28	3.81	1.06	1.43	0.62	20.04																			
	O	0.0	0.0	0.001	0.102	0.094	0.0	0.000	0.0	0.137	0.0	0.0	0.0	0.335																			
ANNUAL MAXIMUM DISCHAPGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval												2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.														
1968		4- 9	0.717	4- 9	0.252	4- 9	0.298	4- 9	0.325	4- 9	0.329	4- 9	0.329	4- 9	0.329	4- 9	0.329	4- 9	0.329														
MAXIMUMS FOR PERIOD OF RECORD																																	
		9-23	0.770	9-23	0.460	9-23	0.600	9-23	0.680	9-23	0.680	9-23	0.680	9-23	0.680	9-23	0.680	9-19	0.850														
		1964		1964		1964		1964		1964		1964		1964		1964		1964															

NOTES: Watershed conditions: Paved roads - 1.5% of the area, rangeland - 98.5%. Range in poor to fair condition, severely overgrazed during a year depending on climatic conditions and stocking rates. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.6-7. Precipitation data by Thiessen method using rain gages 12 and 13. Precipitation and runoff records began May 1961; part-year amounts not included in averages. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968		DAILY PRECIPITATION (inches)						SONORA, TEXAS WATERSHED S-13					
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.0	0.0	0.37	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0
	2	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.0	0.0	0.07	0.61	0.0	0.0	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0
	5	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.00	0.0	0.06	0.0	0.0
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7	0.0	0.0	0.0	0.0	1.12	0.0	0.40	0.0	0.0	0.0	0.0	0.0
	8	0.61	0.0	0.0	0.24	0.0	0.03	0.27	0.0	0.0	0.0	0.0	0.0
	9	0.0	0.0	0.16	2.00	1.18	0.0	0.0	0.0	0.0	0.0	1.02	0.0
	10	0.0	0.11	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	11	0.0	0.03	0.42	0.0	0.41	0.0	0.0	0.01	0.0	0.0	0.0	0.0
	12	0.0	0.0	0.0	0.24	0.21	0.0	0.0	0.07	0.0	0.0	0.0	0.0
	13	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.41	0.03	0.0	0.0	0.0
	14	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0
	17	0.0	0.33	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.02	0.38	0.0	1.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.24	0.0	0.76	0.03	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0
	20	0.64	0.0	0.53	0.15	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
	21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	22	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0
	23	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.34	0.0
	27	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.01	0.0	0.0	0.58	0.0
	28	0.07	0.07	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30	0.02		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0
	31	0.0		0.0		0.0		0.0	0.12		0.0		0.0
TOTAL		1.65	1.45	2.21	4.52	3.02	1.27	2.55	0.62	1.46	0.32	2.87	0.0
STA AV		0.96	1.29	0.79	2.68	3.24	1.48	1.42	1.28	3.81	1.06	1.43	0.62

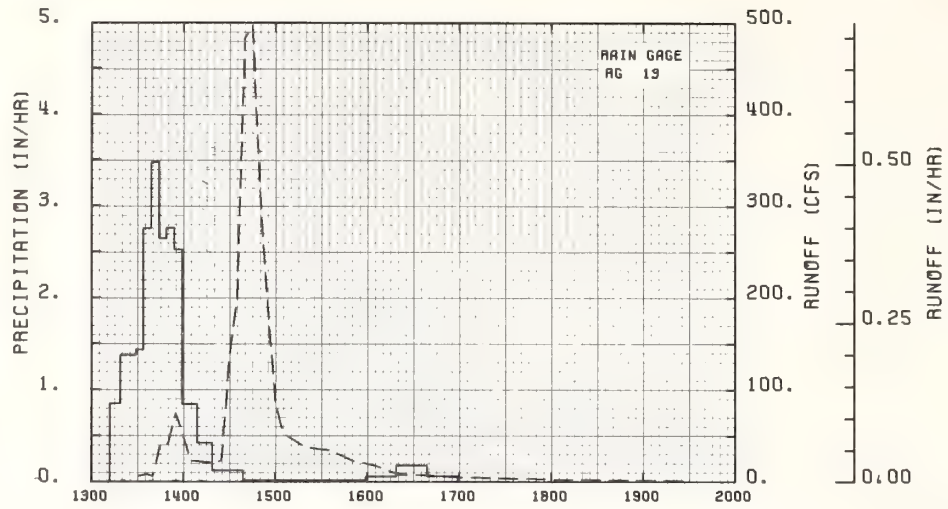
NOTES: For daily air temperatures, in the vicinity, see table for W-14 p. 70.001. Precipitation values are Thiessen weighted average of rain gages 12 and 13. Records began May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED S-13												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.111	0.0	0.006	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.490	0.164	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	1.283	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	1.816	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.008	0.117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.029	0.635	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.047	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0057	0.3414	0.1112	0.0	0.0026	0.0	0.0016	0.0	0.0	0.0
INCHES	0.0	0.0	0.006	0.355	0.120	0.0	0.003	0.0	0.002	0.0	0.0	0.0
STA AV	0.0	0.0	0.001	0.102	0.094	0.0	0.000	0.0	0.137	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.034696. Records began in May 1961; part-year amounts not included in averages. STA AV based on 6 yr record period.

1968	SELECTED RUNOFF EVENT					SONORA, TEXAS WATERSHED S-13						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 9, 1968												
RG 13			RG 13									
4- 9	0.0	0.0	4- 9	1312	0.0	0.0	4- 9	1320	0.0	0.0		
				1319	0.8571	0.10		1325	0.28	0.0		
				1329	1.3800	0.33		1330	6.71	0.0008		
				1334	1.4400	0.45		1335	8.51	0.0018		
				1339	2.7600	0.68		1340	5.81	0.0025		
WATERSHED CONDITIONS: Paved roads - 1.5% of the area, rangeland - 98.5%. Range in poor to fair condition, severely over- grazed during a year depending on climatic conditions and stocking rates.				1344	3.4800	0.97		1345	41.30	0.0075		
				1349	2.6400	1.19		1350	42.13	0.0126		
				1354	2.7600	1.42		1355	74.71	0.0216		
				1359	2.5200	1.63		1405	22.55	0.0270		
				1409	0.8400	1.77		1420	20.27	0.0343		
				1419	0.4200	1.84		1425	23.73	0.0372		
				1439	0.1200	1.88		1430	136.20	0.0536		
				1559	0.0150	1.90		1435	198.87	0.0775		
				1619	0.0600	1.92		1440	482.82	0.1356		
				1639	0.1800	1.98		1445	496.58	0.1955		
				1659	0.0600	2.00		1450	312.45	0.2331		
								1455	191.12	0.2561		
								1500	85.29	0.2664		
					1505	51.60	0.2726					
					1520	36.80	0.2859					
					1535	33.89	0.2981					
					1550	22.55	0.3063					
					1605	17.22	0.3125					
					1620	7.68	0.3153					
					1635	6.78	0.3177					
					1705	4.43	0.3209					
					1800	2.08	0.3237					
					1930	0.62	0.3251					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001446.



EVENT OF APRIL 9, 1968
SONORA, TEXAS WATERSHED S-13

SONORA, TEXAS WATERSHED W-1

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 10.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-1																	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																	
1968	P	2.44	2.30	1.41	3.67	1.19	2.68	2.90	0.78	1.75	0.06	2.92	0.0	22.10																	
	O	0.0	0.029	0.0	0.006	0.001	0.001	0.014	0.0	0.0	0.0	0.0	0.0	0.052																	
STA AV	P	1.57	1.68	0.67	2.85	2.76	1.74	2.56	2.24	3.83	1.17	1.31	0.56	22.96																	
	O	0.136	0.006	0.0	0.313	0.192	0.000	0.019	0.048	0.312	0.0	0.0	0.0	1.026																	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																															
		Maximum Discharge Date		1 Hour Date		2 Hours Date		Maximum Volume for Selected Time Interval										2 Days Date		8 Days Date											
		Rate		Vol.		Vol.		6 Hours Date		12 Hours Date		1 Day Date		Vol.		Vol.		Vol.		Vol.		Vol.		Vol.		Vol.		Vol.			
1968		7-3	0.016	7-3	0.011	7-3	0.014	2-17	0.021	2-17	0.023	2-17	0.024	2-17	0.029	2-11	0.029														
MAXIMUMS FOR PERIOD OF RECORD																															
		4-30	1.680	4-30	0.990	4-30	1.180	4-30	1.280	4-30	1.300	4-30	1.300	4-29	1.490	9-21	1.570														
		1966		1966		1966		1966		1966		1966		1966		1966															

NOTES: Watershed conditions: 100% rangeland; fair level of management; stocking rate, 30-35 animal units per section. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.7-7. Precipitation data from rain gage 15. Precipitation and runoff records began October 1963; part-year amounts not included in station averages. For long-time precipitation records, see U.S. Weather records at the Texas Agricultural Experiment Station, Substation No. 14. Watershed is on substation property.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED W-1													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.0	1.17	0.0	0.50	0.0	0.0	0.47	0.0	0.0	0.0														
	2	0.0	0.0	0.0	0.0	0.0	0.29	1.57	0.0	0.0	0.0	0.0	0.0														
	3	0.09	0.0	0.0	0.0	0.0	0.03	0.14	0.80	0.0	0.0	0.0	0.0														
	4	0.0	0.0	0.0	0.0	0.14	0.0	0.06	0.0	0.0	0.0	0.0	0.0														
	5	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0														
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	7	0.0	0.0	0.0	0.0	0.03	0.0	0.08	0.0	0.0	0.0	0.0	0.0														
	8	0.55	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.23	0.0														
	9	0.0	0.0	0.05	0.90	0.80	0.0	0.0	0.0	0.0	0.0	0.65	0.0														
	10	0.0	0.16	0.20	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	11	0.0	0.03	0.38	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	12	0.0	0.07	0.0	0.45	0.0	0.0	0.04	0.17	0.0	0.0	0.0	0.0														
	13	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.07	0.22	0.0	0.0	0.0														
	14	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	0.0	0.0														
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0														
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0														
	17	0.0	0.94	0.0	0.0	0.0	1.73	0.0	0.0	0.08	0.0	0.0	0.0														
	18	0.42	0.26	0.0	0.31	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0														
	19	0.35	0.0	0.0	0.07	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0														
	20	0.97	0.0	0.60	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	21	0.0	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	23	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.03	0.0	0.0	0.0														
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0														
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0														
	27	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.02	0.0	0.0	0.81	0.0														
	28	0.0	0.08	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	30	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0														
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0														
TOTAL		2.44	2.30	1.41	3.67	1.19	2.68	2.90	0.78	1.75	0.06	2.92	0.0														
STA AV		1.57	1.68	0.67	2.85	2.76	1.74	2.56	2.24	3.83	1.17	1.31	0.56														

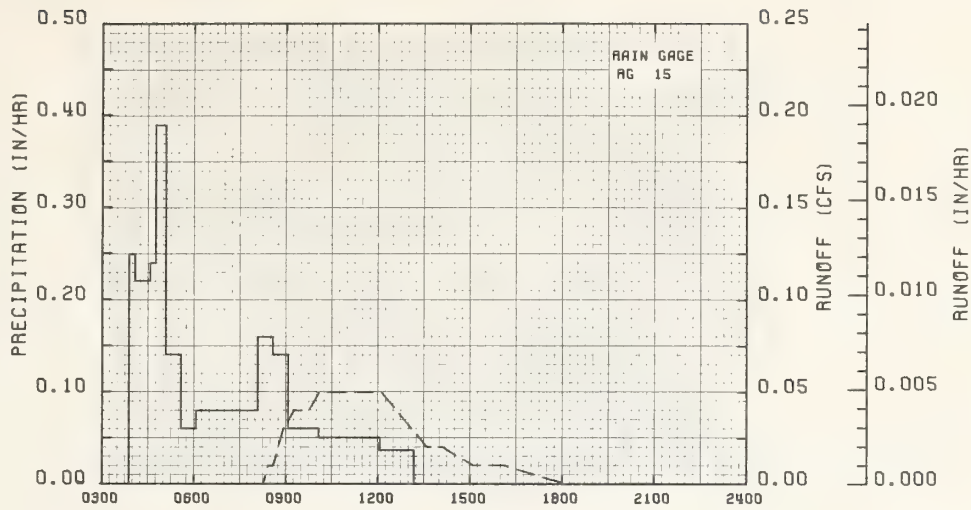
NOTES: For daily air temperatures, in the vicinity, see table for W-14, p. 70.001. Precipitation data obtained from rain gage 15. Records began October 1963; part-year amounts not included in averages. STA AV based on 4 yr record period

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.010	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0
18	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0004	0.0	0.0001	0.0	0.0	0.0002	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.029	0.0	0.006	0.001	0.001	0.014	0.0	0.0	0.0	0.0	0.0
STA AV	0.136	0.006	0.0	0.313	0.192	0.000	0.019	0.048	0.312	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.333480. Records began October 1963; part-year amounts not included in averages. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED W-1					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Painfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 17, 1968											
2-17	RG 15		2-17	RG 15			2-17				
	0.0	0.0		352	0.0	0.0		813	0.0	0.0	
				404	0.2500	0.05		815	0.0	0.0	
				434	0.2200	0.16		825	0.01	0.0001	
				444	0.2400	0.20		835	0.01	0.0003	
				504	0.3900	0.33		845	0.02	0.0006	
WATERSHED CONDITIONS: 100% rangeland; fair level of management; stocking rate, 30-35 animal units per section.					534	0.1400	0.40		855	0.03	0.0011
					604	0.0600	0.43		915	0.04	0.0022
					704	0.0800	0.51		945	0.04	0.0039
					804	0.0800	0.59		1005	0.05	0.0052
					834	0.1600	0.67		1115	0.05	0.0105
					904	0.1400	0.74		1135	0.05	0.0121
					1004	0.0600	0.80		1205	0.05	0.0148
					1104	0.0500	0.85		1235	0.04	0.0170
					1204	0.0500	0.90		1305	0.03	0.0187
					1310	0.0364	0.94		1335	0.02	0.0200
									1405	0.02	0.0208
									1505	0.01	0.0219
									1605	0.01	0.0225
									1805	0.0	0.0233
									2005	0.0	0.0237
									2300	0.0	0.0239

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.097228.



EVENT OF FEBRUARY 17, 1968

SONORA, TEXAS WATERSHED W-1

SONORA, TEXAS WATERSHED W-2

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 8.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-2													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	2.36	2.15	1.36	3.47	1.20	2.04	2.71	0.97	1.60	0.06	2.52	0.0	20.44													
	O	0.0	0.010	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.015													
STA AV	P	1.04	1.55	0.60	2.88	2.69	1.71	2.37	2.12	2.73	0.98	1.43	0.48	20.57													
	O	0.0	0.003	0.0	0.541	0.255	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.851													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		4- 1	0.011	4- 1	0.004	4- 1	0.004	2-17	0.008	2-17	0.010	2-16	0.010	2-15	0.010	2- 9	0.010										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-30	1.550	4-30	1.250	4-30	1.710	4-30	1.960	4-30	2.000	4-30	2.000	4-29	2.140	4-24	2.160										
		1966		1966		1966		1966		1966		1966		1966		1966											

NOTES: Watershed conditions: 100% rangeland; low good level of management; stocking rate, 32 animal units per section. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.8-6. Precipitation data from rain gage 16. Precipitation and runoff records began January 1965. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14. Watershed is on substation property.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED W-2													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.0	1.17	0.0	0.42	0.0	0.0	0.50	0.0	0.0	0.0														
	2	0.0	0.0	0.0	0.0	0.0	0.16	1.12	0.0	0.0	0.0	0.0	0.0														
	3	0.05	0.0	0.0	0.0	0.02	0.06	1.05	0.0	0.0	0.0	0.0	0.0														
	4	0.0	0.0	0.0	0.0	0.25	0.0	0.01	0.0	0.0	0.0	0.0	0.0														
	5	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0														
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	7	0.0	0.0	0.0	0.0	0.02	0.0	0.06	0.0	0.0	0.0	0.0	0.0														
	8	0.59	0.0	0.03	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.23	0.0														
	9	0.0	0.0	0.0	0.77	0.73	0.0	0.0	0.0	0.0	0.0	0.55	0.0														
	10	0.0	0.17	0.19	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	11	0.0	0.01	0.37	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	12	0.0	0.05	0.0	0.42	0.0	0.0	0.22	0.24	0.0	0.0	0.0	0.0														
	13	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.17	0.10	0.0	0.0	0.0														
	14	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0														
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0														
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0														
	17	0.0	0.90	0.0	0.0	0.0	1.38	0.0	0.0	0.06	0.0	0.0	0.0														
	18	0.41	0.27	0.0	0.27	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0														
	19	0.32	0.0	0.06	0.09	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0														
	20	0.92	0.0	0.54	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	21	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	23	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.03	0.0	0.0	0.0														
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0														
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	27	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.08	0.0	0.0	0.80	0.0														
	28	0.0	0.06	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	30	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0														
	31	0.0		0.0		0.0		0.0	0.06		0.0		0.0														
TOTAL		2.36	2.15	1.36	3.47	1.20	2.04	2.71	0.97	1.60	0.06	2.52	0.0														
STA AV		1.04	1.55	0.60	2.88	2.69	1.71	2.37	2.12	2.73	0.98	1.43	0.48														

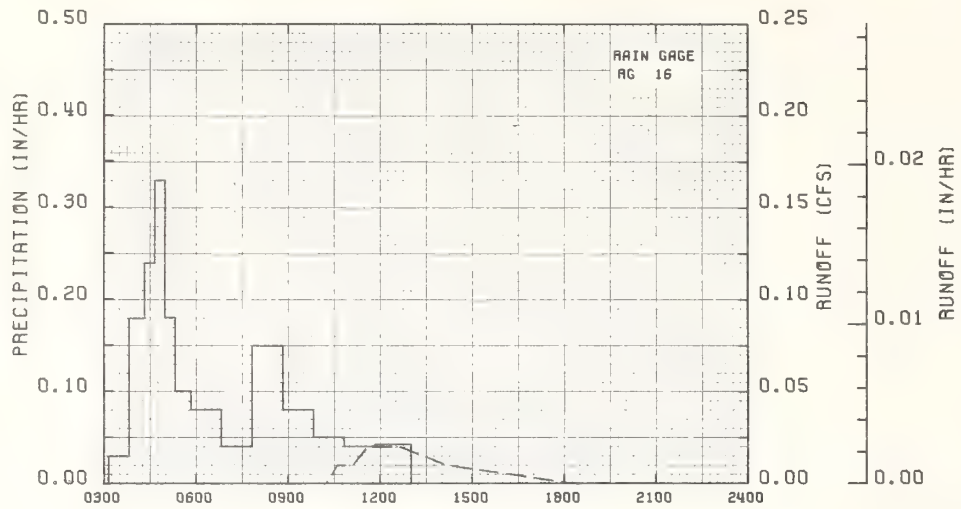
NOTES: For daily air temperatures, in the vicinity, see table for W-14, p. 70.001. Precipitation data obtained from rain gage 16. Records began January 1965. STA AV based on 3 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0001	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.010	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.003	0.0	0.541	0.255	0.0	0.0	0.052	0.0	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.767616. Records began January 1965. STA AV based on 3 yr record period.

1968			SELECTED RUNOFF EVENT			SONORA, TEXAS WATERSHED W-2					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF FEBRUARY 17, 1968											
RG 16			RG 16								
2-17	0.0	0.0	2-17	309	0.0	0.0	2-17	1000	0.0	0.0	
				349	0.0300	0.02		1015	0.0	0.0	
				419	0.1800	0.11		1035	0.01	0.0002	
				439	0.2400	0.19		1045	0.01	0.0004	
				459	0.3300	0.30		1105	0.01	0.0009	
WATERSHED CONDITIONS:				519	0.1800	0.36		1135	0.02	0.0019	
100% rangeland; low good				549	0.1000	0.41		1235	0.02	0.0044	
level of management;				649	0.0800	0.49		1405	0.01	0.0071	
stocking rate, 32 animal				749	0.0400	0.53		1805	0.0	0.0100	
units per section.				849	0.1500	0.68		2000	0.0	0.0103	
				949	0.0800	0.76					
				1049	0.0500	0.81					
				1149	0.0400	0.85					
				1300	0.0423	0.90					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.115317.



EVENT OF FEBRUARY 17, 1968
SONORA, TEXAS WATERSHED W-2

SONORA, TEXAS WATERSHED W-3

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 6.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-3													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	2.38	2.27	1.52	3.69	1.59	2.00	3.12	0.72	1.82	0.27	2.81	0.0	22.19													
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
STA AV	P	1.03	1.64	0.72	3.08	3.17	1.76	2.08	2.37	2.74	1.25	1.44	0.52	21.78													
	O	0.0	0.0	0.0	0.315	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.330													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1968		1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0								
MAXIMUMS FOR PERIOD OF RECORD																											
		4-30	1.670	4-30	1.020	4-30	1.220	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260	4-30	1.260
		1966		1966		1966		1966		1966		1966		1966		1966		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: 100% rangeland; range in fair condition. Precipitation data from rain gage 17. No runoff occurred during 1968. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.9-4. Precipitation and runoff records began January 1965. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968		DAILY PRECIPITATION (inches)						SONORA, TEXAS WATERSHED W-3						
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	1.03	0.0	0.96	0.0	0.0	0.48	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.44	0.94	0.0	0.0	0.0	0.0	0.0	
	3	0.07	0.0	0.0	0.0	0.09	0.0	0.11	0.0	0.0	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	5	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	8	0.60	0.0	0.09	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.23	0.0	
	9	0.0	0.0	0.0	0.90	1.04	0.0	0.0	0.0	0.0	0.23	0.57	0.0	
	10	0.0	0.15	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.02	0.37	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	12	0.0	0.06	0.0	0.48	0.0	0.0	0.48	0.26	0.0	0.0	0.0	0.0	
	13	0.0	0.54	0.0	0.0	0.0	0.0	0.20	0.03	0.33	0.0	0.0	0.0	
	14	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.08	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	17	0.0	0.97	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	
	18	0.45	0.24	0.0	0.30	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	
	19	0.32	0.0	0.04	0.06	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	
	20	0.87	0.0	0.52	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.01	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	
	27	0.04	0.0	0.04	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.90	0.0	
	28	0.0	0.05	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	
	31	0.0		0.0		0.0		0.0	0.04		0.0		0.0	
TOTAL		2.38	2.27	1.52	3.69	1.59	2.00	3.12	0.72	1.82	0.27	2.81	0.0	
STA AV		1.03	1.64	0.72	3.08	3.17	1.76	2.08	2.37	2.74	1.25	1.44	0.52	

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, 70.001. Precipitation data obtained from rain gage 17. Records began January 1965. STA AV based on 3 yr record period.

SONORA, TEXAS WATERSHED W-4

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 4.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-4											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	2.29	2.46	1.49	3.71	1.28	1.62	3.21	0.61	1.89	0.28	2.73	0.0	21.57											
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											
STA AV	P	1.16	1.42	0.90	4.22	1.85	1.63	2.84	2.87	3.54	1.19	1.72	0.36	23.70											
	O	0.0	0.0	0.0	0.080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.080											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0
MAXIMUMS FOR PERIOD OF RECORD																									
		4-30	0.320	4-30	0.200	4-30	0.240	4-30	0.250	4-30	0.250	4-30	0.250	4-30	0.250	4-30	0.250	4-30	0.250	4-30	0.250	4-30	0.250	4-30	0.250
		1966		1966		1966		1966		1966		1966		1966		1966		1966		1966		1966		1966	

NOTES: Watershed conditions: Rangeland - 100% range in low good condition. Precipitation data from rain gage 18. No runoff occurred during 1968. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.10-4. Precipitation and runoff records began January 1966. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)														SONORA, TEXAS WATERSHED W-4											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	1	0.0	0.0	0.0	1.17	0.0	0.74	0.0	0.0	0.66	0.0	0.0	0.0												
	2	0.0	0.0	0.0	0.0	0.0	0.24	0.92	0.0	0.0	0.0	0.0	0.0												
	3	0.06	0.0	0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0												
	4	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	5	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0												
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	7	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	8	0.66	0.0	0.10	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.22	0.0												
	9	0.0	0.0	0.0	0.74	0.67	0.0	0.0	0.0	0.0	0.25	0.56	0.0												
	10	0.0	0.18	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	11	0.0	0.01	0.37	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	12	0.0	0.11	0.0	0.48	0.0	0.0	0.40	0.18	0.0	0.0	0.0	0.0												
	13	0.0	0.57	0.0	0.0	0.0	0.0	0.03	0.02	0.28	0.0	0.0	0.0												
	14	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.06	0.0												
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0												
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	17	0.0	1.05	0.0	0.0	0.0	0.64	0.0	0.09	0.0	0.0	0.0	0.0												
	18	0.41	0.27	0.0	0.31	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0												
	19	0.31	0.0	0.02	0.07	0.0	0.0	0.99	0.0	0.0	0.0	0.0	0.0												
	20	0.79	0.0	0.50	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	21	0.0	0.0	0.01	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0												
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0												
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0												
	27	0.0	0.0	0.02	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.84	0.0												
	28	0.0	0.05	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	30	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0												
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0												
TOTAL		2.29	2.46	1.49	3.71	1.28	1.62	3.21	0.61	1.89	0.28	2.73	0.0												
STA AV		1.16	1.42	0.90	4.22	1.85	1.63	2.84	2.87	3.54	1.19	1.72	0.36												

NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation data obtained from rain gage 18. Records began January 1966. STA AV based on 2 yr record period.

SONORA, TEXAS WATERSHED W-5

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 7.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-5													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	2.29	2.23	1.38	3.63	1.27	1.78	2.90	0.55	1.50	0.28	2.54	0.0	20.35													
	O	0.0	0.0	0.0	0.003	0.003	0.004	0.003	0.0	0.0	0.0	0.0	0.0	0.013													
STA AV	P	1.13	1.29	0.91	3.93	1.82	1.59	2.52	2.85	2.91	1.11	1.54	0.35	21.96													
	O	0.0	0.0	0.0	0.388	0.021	0.001	0.001	0.040	0.0	0.0	0.0	0.0	0.451													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval										2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1968		5- 9	0.015	6- 1	0.003	6- 1	0.003	6- 1	0.003	6- 1	0.003	5-31	0.003	5-30	0.003	5-24	0.003										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-30	1.380	4-30	0.790	4-30	1.010	4-30	1.080	4-30	1.080	4-30	1.080	4-29	1.130	4-24	1.150										
		1966		1966		1966		1966		1966		1966		1966		1966											

NOTES: Watershed conditions: Rangeland - 100%; range overgrazed, low poor condition. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.11-5. Precipitation data from rain gage 19. Precipitation and runoff records began January 1966. For long-time precipitation records, see U.S. Weather Bureau records at Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968	DAILY PRECIPITATION (inches)						SONORA, TEXAS WATERSHED W-5							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.0	1.14	0.0	1.00	0.0	0.0	0.39	0.0	0.0	0.0	
	2	0.0	0.0	0.0	0.0	0.0	0.22	0.75	0.0	0.0	0.0	0.0	0.0	
	3	0.05	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	
	4	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	5	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	
	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	8	0.68	0.0	0.08	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.19	0.0	
	9	0.0	0.0	0.0	0.77	0.75	0.0	0.0	0.0	0.0	0.24	0.59	0.0	
	10	0.0	0.18	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.01	0.41	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	12	0.0	0.07	0.0	0.44	0.01	0.0	0.37	0.13	0.0	0.0	0.0	0.0	
	13	0.0	0.49	0.0	0.0	0.0	0.0	0.02	0.0	0.27	0.0	0.0	0.0	
	14	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	17	0.0	1.00	0.0	0.0	0.0	0.56	0.0	0.10	0.0	0.0	0.0	0.0	
	18	0.41	0.25	0.0	0.30	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	
	19	0.30	0.0	0.05	0.06	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	
	20	0.78	0.0	0.47	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	21	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	
	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
	27	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.69	0.0	
	28	0.0	0.03	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	
	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	
TOTAL		2.29	2.23	1.38	3.63	1.27	1.78	2.90	0.55	1.50	0.28	2.54	0.0	
STA AV		1.13	1.29	0.91	3.93	1.82	1.59	2.52	2.85	2.91	1.11	1.54	0.35	

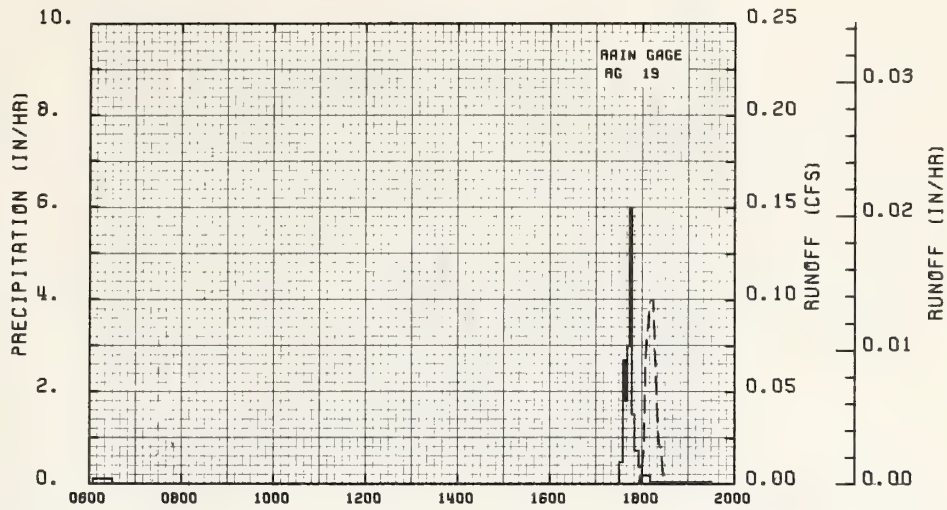
NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation data obtained from rain gage 19. Records began January 1966. STA AV based on 2 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.003	0.003	0.004	0.003	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.388	0.021	0.001	0.001	0.040	0.0	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 3.305764. Records began January 1966. STA AV based on 2 yr record period.

1968 SELECTED RUNOFF EVENT						SONORA, TEXAS WATERSHED W-5					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 1, 1968											
6- 1	RG 19		6- 1	RG 19			6- 1				
	0.0	0.0		605	0.0	0.0		1754	0.0	0.0	
				630	0.1200	0.05		1756	0.0	0.0	
				1730	0.0	0.05		1758	0.01	0.0	
				1735	0.4800	0.09		1800	0.01	0.0	
				1737	2.7007	0.18		1802	0.02	0.0001	
WATERSHED CONDITIONS: Rangeland - 100%, range overgrazed, low poor condition.				1740	1.7999	0.27		1804	0.07	0.0003	
				1743	2.9998	0.42		1806	0.08	0.0006	
				1746	5.9996	0.72		1810	0.10	0.0015	
				1750	1.5000	0.82		1814	0.10	0.0024	
				1755	0.7200	0.88		1816	0.07	0.0028	
				1800	0.3600	0.91		1818	0.05	0.0031	
				1810	0.1800	0.94		1820	0.03	0.0033	
				1930	0.0450	1.00		1822	0.02	0.0034	
								1824	0.02	0.0035	
								1826	0.01	0.0036	
							1828	0.0	0.0036		
							1833	0.0	0.0036		
							1900	0.0	0.0036		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.137740.



EVENT OF JUNE 1, 1968
SONORA, TEXAS WATERSHED W-5

SONORA, TEXAS WATERSHED W-6

LOCATION: Edwards County, Texas; 28 mi. (highway) south of Sonora; East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 6.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														SONORA, TEXAS WATERSHED W-6													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	2.35	2.34	1.49	3.76	1.39	1.93	3.23	0.66	1.61	0.47	2.94	0.0	22.17													
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
STA AV	P	1.23	1.35	1.00	4.23	1.78	1.56	2.57	3.05	3.14	1.21	1.88	0.33	23.33													
	O	0.0	0.0	0.0	0.307	0.013	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.333													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.										
1968		1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0										
MAXIMUMS FOR PERIOD OF RECORD																											
		4-30	1.900	4-30	0.840	4-30	0.910	4-30	0.910	4-30	0.910	4-30	0.910	4-29	0.910	4-24	0.920										
		1966		1966		1966		1966		1966		1966		1966		1966											

NOTES: Watershed conditions: Rangeland - 100%; range condition - poor. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.12-4. Precipitation data from rain gage 20. No runoff occurred during 1968. Precipitation and runoff records began January 1966. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968		DAILY PRECIPITATION (inches)					SONORA, TEXAS WATERSHED W-6						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	1.09	0.0	0.83	0.0	0.0	0.38	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.41	1.01	0.0	0.0	0.0	0.0	0.0	
3	0.07	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.60	0.0	0.08	0.0	0.0	0.0	1.04	0.0	0.0	0.0	0.21	0.0	
9	0.0	0.0	0.0	0.95	0.87	0.0	0.0	0.0	0.0	0.42	0.66	0.0	
10	0.0	0.18	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.01	0.37	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.08	0.0	0.50	0.0	0.0	0.37	0.23	0.0	0.0	0.0	0.0	
13	0.0	0.55	0.0	0.0	0.0	0.0	0.08	0.0	0.30	0.0	0.0	0.0	
14	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	1.02	0.0	0.0	0.0	0.69	0.0	0.09	0.0	0.0	0.0	0.0	
18	0.46	0.25	0.0	0.31	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	
19	0.32	0.0	0.0	0.06	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0	
20	0.85	0.0	0.56	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.01	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	
27	0.0	0.0	0.01	0.0	0.04	0.0	0.0	0.02	0.0	0.0	0.90	0.0	
28	0.0	0.04	0.01	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	
TOTAL	2.35	2.34	1.49	3.76	1.39	1.93	3.23	0.66	1.61	0.47	2.94	0.0	
STA AV	1.23	1.35	1.00	4.23	1.78	1.56	2.57	3.05	3.14	1.21	1.88	0.33	

NOTES: For daily air temperature, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation data obtained from rain gage 20. Records began January 1966. STA AV based on 2 yr record period.

SONORA, TEXAS WATERSHED W-7

LOCATION: Sutton County, Texas; 10 mi. NE of Sonora; Lowrey Draw, East Fork Devils River, Devils River, Rio Grande River Basin.

AREA: 12.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								SONORA, TEXAS WATERSHED W-7							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	1.66	1.17	2.16	3.55	1.87	1.81	3.25	0.83	1.97	0.32	2.52	0.0	21.11	
	Q	0.0	0.0	0.001	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	
STA AV	P	0.95	1.25	1.01	2.31	3.13	1.94	1.58	0.72	2.78	0.83	1.43	0.62	18.53	
	Q	0.0	0.0	0.000	0.038	0.150	0.188	0.0	0.0	0.015	0.0	0.0	0.0	0.391	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		5-11	0.001	4- 9	0.0	4- 9	0.001	4- 9	0.001	4- 9	0.002	4- 8	0.002	4- 7	0.002
MAXIMUMS FOR PERIOD OF RECORD															
		6- 2	0.910	6- 2	0.570	6- 2	0.660	6- 2	0.660	6- 2	0.660	6- 2	0.730	6- 2	0.730
		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: Rangeland - 100%; range condition - high fair. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 70.13-6. Precipitation data from rain gage 1. Precipitation and runoff records began January 1965. For long-time precipitation records, see U.S. Weather Bureau records at the Texas Agricultural Experiment Station, Substation No. 14, 18 miles south of Sonora, Texas.

1968 DAILY PRECIPITATION (inches)													
SONORA, TEXAS WATERSHED W-7													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.28	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.03	1.38	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0
5	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.18	0.0	0.09	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.57	0.0	0.0	0.37	0.0	0.02	0.38	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.31	1.13	0.82	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0
10	0.0	0.10	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.04	0.46	0.0	0.76	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
12	0.0	0.02	0.0	0.18	0.12	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0
13	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0
14	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0
17	0.0	0.18	0.0	0.0	0.0	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.11	0.28	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.32	0.0	0.69	0.05	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.0
20	0.59	0.0	0.37	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.61	0.0	0.0
28	0.06	0.06	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0
TOTAL	1.66	1.17	2.16	3.55	1.87	1.81	3.25	0.83	1.97	0.32	2.52	0.0	
STA AV	0.95	1.25	1.01	2.31	3.13	1.94	1.58	0.72	2.78	0.83	1.43	0.62	

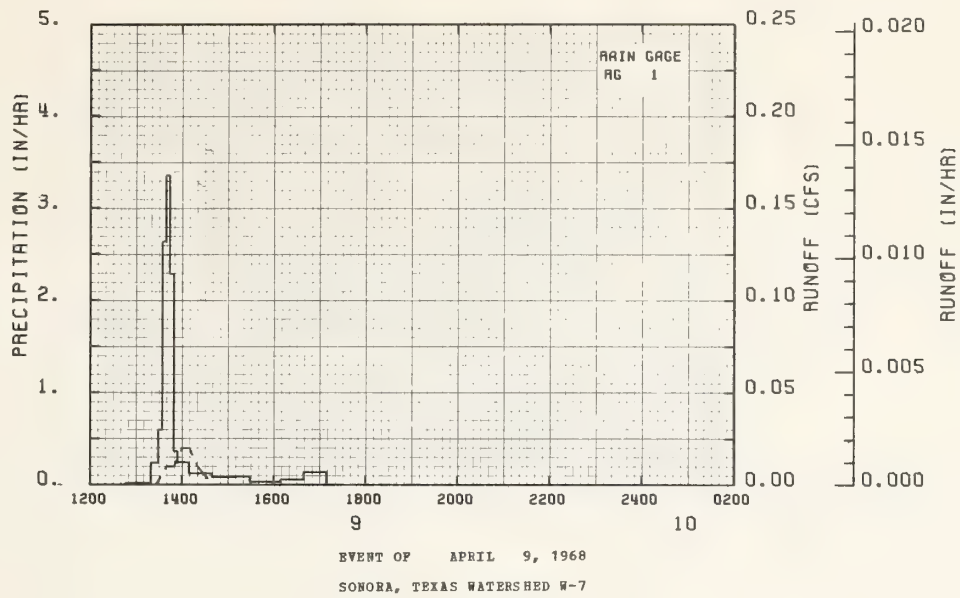
NOTES: For daily air temperatures, in the vicinity, see table for Watershed W-14, p. 70.001. Precipitation data obtained from rain gage 1. Records began January 1965. STA AV based on 3 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) SONORA, TEXAS WATERSHED W-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.001	0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.000	0.038	0.150	0.188	0.0	0.0	0.015	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.950943. Records began January 1965. STA AV based on 3 yr record period.

1968 SELECTED RUNOFF EVENT SONORA, TEXAS WATERSHED W-7											
ANTECEDENT CONDITIONS			RAINFALL								
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 9, 1968											
RG	1		RG	1							
4- 9	0.0	0.0	4- 9	1247	0.0	0.0	4- 9	1326	0.0	0.0	
				1319	0.0187	0.01		1340	0.01	0.0001	
				1329	0.2400	0.05		1350	0.01	0.0002	
				1334	0.6000	0.10		1400	0.02	0.0004	
				1339	2.6400	0.32		1410	0.02	0.0006	
WATERSHED CONDITIONS: Rangeland - 100%, range condition - high fair.				1344	3.3600	0.60		1420	0.01	0.0008	
				1349	2.2800	0.79		1440	0.0	0.0010	
				1354	0.3600	0.82		2200	0.0	0.0021	
				1409	0.2400	0.88					
				1419	0.1200	0.90					
				1439	0.1200	0.94					
				1509	0.0800	0.98					
				1529	0.0900	1.01					
				1609	0.0300	1.03					
				1639	0.0600	1.06					
				1709	0.1400	1.13					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.081289.



TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin.

AREA: 74.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 1	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1968	P	0.34	0.10	0.37	3.38	3.63	3.02	3.88	4.60	3.54	6.96	1.12	1.62	32.56	
	O	0.195	0.118	0.142	0.142	0.187	0.397	0.155	0.195	0.118	0.654	0.214	0.279	2.795	
STA AV	P	0.56	0.50	1.06	3.03	4.27	8.51	3.51	3.85	5.20	2.28	0.81	0.85	34.42	
	O	0.235	0.463	0.601	0.352	0.696	3.442	0.386	0.362	0.748	0.339	0.235	0.241	8.100	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-13	0.887	6-13	0.204	10-16	0.302	10-16	0.404	10-16	0.423	10-16	0.430	10-16	0.441
MAXIMUMS FOR PERIOD OF RECORD															
		6-20	5.835	6-20	3.150	6-20	4.160	6-20	4.224	6-20	4.232	6-20	4.246	6-20	4.264
		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 95% contoured corn; 5% quillies and grassed waterways; precipitation from rain gage 117 before April 1 and after November 12; Thiessen average of gages 116, 117, 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 10, 1964. January 1 to February 10, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3, (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

1968 DAILY PRECIPITATION (inches)														TREYNOR, IOWA WATERSHED 1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.08			
2	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.90	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.68	0.21	0.0			
6	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.02	0.0			
7	0.0	0.0	0.05	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.50	0.02	1.26	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0			
10	0.0	0.0	0.0	0.0	0.0	1.25	0.0	0.66	0.0	0.0	0.54	0.0			
11	0.27	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.05	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.34	1.09	0.87	0.0	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0			
15	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.14	0.02	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.0	1.25	0.27	1.46	4.62	0.05	0.0			
17	0.0	0.0	0.0	0.24	0.06	0.0	0.0	0.0	0.30	0.31	0.0	0.0			
18	0.0	0.0	0.22	0.46	0.0	0.0	0.0	0.50	0.61	0.0	0.0	1.08			
19	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
21	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30			
22	0.0	0.0	0.0	0.65	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.0	0.29	0.0	0.16	0.09	0.27	0.02	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.10	0.0	0.0	0.90	0.31	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.04	0.02	0.0	1.58	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12			
28	0.0	0.0	0.0	0.0	0.43	0.03	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.02	0.0	0.0	0.0	0.0	0.17	0.27	0.23	0.0	0.0	0.0	0.0			
30	0.0	0.10	0.0	0.0	0.0	0.0	1.58	0.29	0.21	0.0	0.0	0.0			
31	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	0.34	0.10	0.37	3.38	3.63	3.02	3.88	4.60	3.54	6.96	1.12	1.62			
STA AV	0.56	0.50	1.06	3.03	4.27	8.51	3.51	3.85	5.20	2.28	0.81	0.85			

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after November 12; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV are based on 5 yr record period.

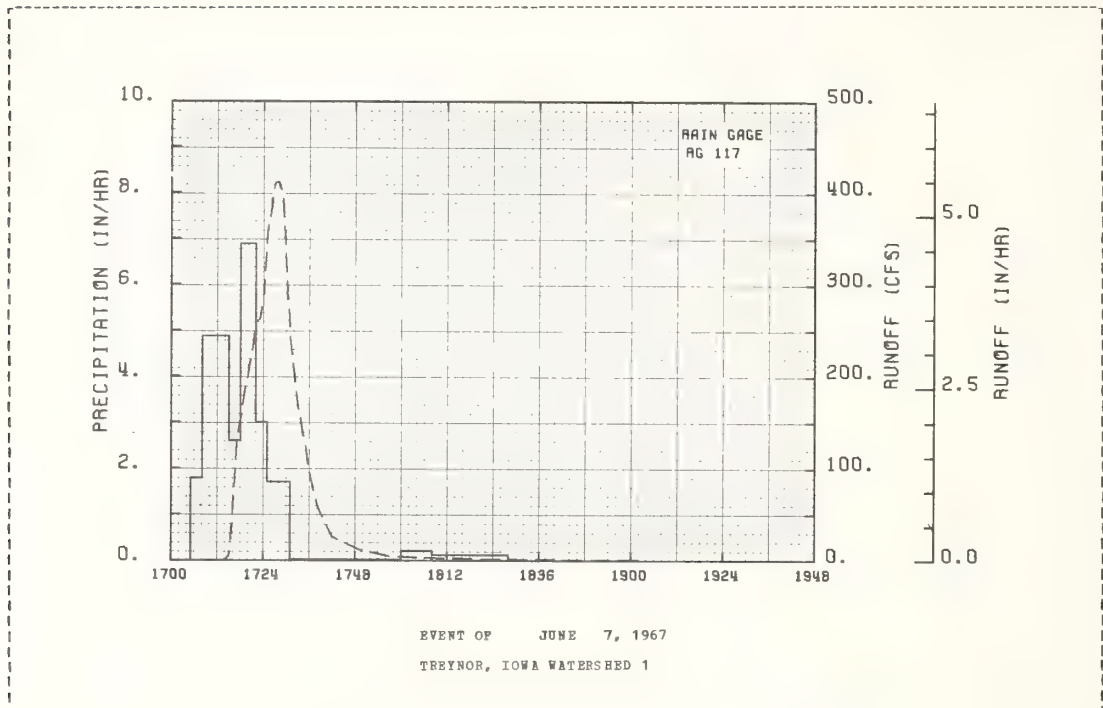
1968 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.014	0.014	0.017	0.013	0.013	0.017	0.013	0.007	0.007	0.010	0.019	0.019
2	0.014	0.017	0.014	0.016	0.013	0.017	0.012	0.007	0.007	0.012	0.019	0.021
3	0.014	0.017	0.018	0.025	0.011	0.016	0.012	0.007	0.032	0.020	0.019	0.019
4	0.012	0.019	0.016	0.014	0.012	0.013	0.012	0.010	0.008	0.023	0.022	0.019
5	0.012	0.016	0.014	0.011	0.014	0.014	0.012	0.007	0.008	0.025	0.026	0.016
6	0.014	0.012	0.014	0.013	0.016	0.013	0.013	0.006	0.007	0.009	0.025	0.018
7	0.014	0.013	0.014	0.014	0.025	0.014	0.012	0.006	0.006	0.008	0.022	0.016
8	0.012	0.014	0.014	0.010	0.015	0.015	0.016	0.016	0.007	0.160	0.019	0.021
9	0.010	0.015	0.014	0.011	0.015	0.012	0.008	0.008	0.006	0.014	0.024	0.019
10	0.010	0.012	0.014	0.011	0.018	0.134	0.008	0.031	0.007	0.010	0.025	0.019
11	0.010	0.010	0.014	0.009	0.016	0.034	0.008	0.008	0.006	0.010	0.024	0.021
12	0.010	0.010	0.015	0.011	0.016	0.015	0.010	0.007	0.006	0.010	0.019	0.022
13	0.010	0.010	0.019	0.017	0.063	0.663	0.009	0.006	0.007	0.010	0.022	0.017
14	0.010	0.011	0.015	0.013	0.015	0.018	0.009	0.006	0.006	0.010	0.030	0.019
15	0.010	0.012	0.016	0.010	0.012	0.014	0.010	0.008	0.007	0.010	0.026	0.019
16	0.011	0.012	0.014	0.011	0.013	0.014	0.043	0.010	0.037	1.324	0.025	0.019
17	0.014	0.010	0.014	0.012	0.013	0.016	0.012	0.007	0.033	0.052	0.025	0.019
18	0.018	0.010	0.014	0.022	0.014	0.015	0.009	0.013	0.029	0.033	0.022	0.258
19	0.020	0.013	0.014	0.018	0.012	0.015	0.009	0.009	0.019	0.029	0.021	0.035
20	0.075	0.012	0.014	0.016	0.015	0.016	0.009	0.009	0.016	0.025	0.024	0.025
21	0.098	0.010	0.014	0.019	0.017	0.015	0.009	0.009	0.013	0.025	0.025	0.025
22	0.023	0.010	0.014	0.036	0.019	0.016	0.009	0.009	0.012	0.025	0.025	0.025
23	0.016	0.010	0.014	0.024	0.016	0.015	0.011	0.010	0.011	0.025	0.022	0.025
24	0.019	0.010	0.014	0.012	0.013	0.017	0.010	0.007	0.010	0.025	0.020	0.022
25	0.038	0.012	0.013	0.014	0.034	0.020	0.009	0.006	0.010	0.025	0.019	0.019
26	0.026	0.014	0.013	0.013	0.021	0.018	0.010	0.332	0.010	0.020	0.019	0.019
27	0.015	0.014	0.012	0.013	0.018	0.015	0.009	0.011	0.010	0.019	0.021	0.019
28	0.017	0.014	0.012	0.012	0.050	0.016	0.009	0.007	0.010	0.019	0.020	0.019
29	0.018	0.015	0.012	0.013	0.017	0.015	0.011	0.009	0.010	0.019	0.021	0.019
30	0.014	0.014	0.014	0.011	0.018	0.013	0.139	0.013	0.012	0.019	0.021	0.019
31	0.014	0.013	0.013	0.021	0.021	0.009	0.008	0.008	0.019	0.019	0.019	0.019
MEAN	0.0197	0.0127	0.0143	0.0148	0.0188	0.0415	0.0156	0.0197	0.0124	0.0660	0.0224	0.0281
INCHES	0.195	0.118	0.142	0.142	0.187	0.397	0.155	0.195	0.118	0.654	0.214	0.279
STA AV	0.235	0.463	0.601	0.352	0.696	3.442	0.386	0.362	0.748	0.339	0.235	0.241

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.31948. STA AV are based on 5 yr record period.

1967 SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 1									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 7, 1967												
6- 7	RG 117		6- 7	RG 117			6- 7					
	0.11	0.007		1705	0.0	0.0		1707	0.060	0.0		
				1708	1.7999	0.09		1709	0.080	0.0		
				1715	4.8856	0.66		1710	0.120	0.0		
				1718	2.6006	0.79		1711	0.170	0.0		
				1722	6.9001	1.25		1713	0.360	0.0001		
WATERSHED CONDITIONS:												
95% contoured corn 4-6 in. tall, less than 10% canopy, rotary hoed 3 days prior to event; 5% gullies and grassed waterways, grass 10-16 in. tall.												
				1725	2.9998	1.40		1714	0.760	0.0002		
				1731	1.6999	1.57		1715	5.640	0.0009		
				1800	0.0207	1.58		1716	50.580	0.0071		
				1808	0.2250	1.61		1717	127.450	0.0268		
				1828	0.1200	1.65		1719	180.900	0.0954		
30 Day Antecedent Conditions:												
								1721	226.000	0.1853		
								1722	260.300	0.2390		
								1723	262.300	0.2976		
								1724	285.300	0.3581		
								1725	356.100	0.4290		
05-08 thru												
05-27	0.0	0.092										
05-28	0.54	0.007						1726	382.900	0.5107		
05-29	0.30	0.005						1727	411.300	0.5997		
05-30	1.54	0.014						1728	411.300	0.6906		
05-31	0.90	0.012						1729	396.700	0.7799		
06-01	0.04	0.009						1730	312.100	0.8594		
06-02,03	0.0	0.011										
06-04	1.25	0.194						1731	240.750	0.9205		
06-05	2.44	1.614						1733	165.900	1.0104		
06-06	0.0	0.009						1735	122.800	1.0747		
								1736	95.840	1.0989		
								1738	59.010	1.1334		
								1740	41.070	1.1555		
								1742	25.100	1.1702		
								1744	20.920	1.1804		
								1749	11.260	1.1983		
								1757	4.560	1.2123		
								1807	2.350	1.2200		
								1822	1.090	1.2257		
								1823	0.970	1.2259		
								1827	1.090	1.2268		
								1839	1.090	1.2297		

1967			SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 1					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 7, 1967 (CONTINUED)											
							6- 7	1842	0.760	1.2303	
								1850	0.460	1.2314	
								1902	0.360	1.2325	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.01331. Event precipitation totals for rain gages 116 and 118 are 1.52 in. and 1.24 in., respectively and Thiessen weighted average total for event is 1.46 in.



TREYNOR, IOWA WATERSHED 2

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missouri River Basin.

AREA: 82.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										TREYNOR, IOWA WATERSHED 2									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1968	P	0.34	0.10	0.37	3.35	3.55	3.15	3.85	4.58	3.61	6.88	1.13	1.62	32.53					
	O	0.256	0.202	0.204	0.212	0.188	0.481	0.138	0.169	0.105	0.640	0.157	0.184	2.938					
STA AV	P	0.56	0.50	1.05	3.01	4.16	8.49	3.44	3.70	5.20	2.25	0.82	0.85	34.04					
	O	0.254	0.564	0.642	0.353	0.686	3.224	0.315	0.331	0.669	0.331	0.213	0.216	7.800					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-13	1.131	6-13	0.272	10-16	0.307	10-16	0.399	10-16	0.417	10-16	0.422	10-16	0.433	10-16	0.485		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-20	4.866	6-20	2.701	6-20	3.693	6-20	3.780	6-20	3.706	6-20	3.796	6-20	3.810	6-4	5.531		
		1967		1967		1967		1967		1967		1967		1967		1967			

NOTES: Watershed conditions: 95% contoured corn; 5% gullies and grassed waterways. Precipitation from gage 117 before April 1 and after November 12; Thiessen average of gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 - February 3, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.2-5. For long-time precipitation records, see U.S. Weather Bureau records period at Omaha, Nebraska.

1968		DAILY PRECIPITATION (inches)					TREYNOR, IOWA WATERSHED 2							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.08		
2	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.99	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.68	0.22	0.0		
6	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.02	0.0		
7	0.0	0.0	0.05	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.51	0.02	1.29	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	1.23	0.0	0.60	0.0	0.0	0.54	0.0		
11	0.27	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.05	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.33	1.08	0.95	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0		
15	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.19	0.02	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.28	1.43	4.56	0.05	0.0		
17	0.0	0.0	0.0	0.0	0.26	0.05	0.0	0.0	0.34	0.28	0.0	0.0		
18	0.0	0.0	0.22	0.44	0.0	0.0	0.0	0.50	0.59	0.0	0.0	1.08		
19	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30		
22	0.0	0.0	0.0	0.63	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	0.29	0.0	0.16	0.10	0.24	0.02	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.10	0.0	0.0	0.87	0.35	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.05	0.02	0.0	1.59	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12		
28	0.0	0.0	0.0	0.0	0.39	0.03	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.02	0.0	0.0	0.0	0.0	0.14	0.27	0.22	0.0	0.0	0.0	0.0		
30	0.0	0.10	0.0	0.0	0.0	0.0	1.49	0.28	0.20	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.34	0.10	0.37	3.35	3.55	3.15	3.85	4.58	3.61	6.88	1.13	1.62		
STA AV	0.56	0.50	1.05	3.01	4.16	8.49	3.44	3.70	5.20	2.25	0.82	0.85		

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through November 12, and from station 117 for remainder of year. STA AV are based on 5 yr record period.

TREYNOR, IOWA WATERSHED 2												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.017	0.027	0.032	0.022	0.015	0.022	0.016	0.009	0.006	0.008	0.017	0.017
2	0.017	0.027	0.024	0.027	0.015	0.019	0.014	0.009	0.006	0.006	0.017	0.019
3	0.017	0.027	0.022	0.031	0.012	0.019	0.014	0.009	0.075	0.006	0.017	0.018
4	0.017	0.027	0.028	0.026	0.012	0.018	0.012	0.012	0.013	0.006	0.017	0.018
5	0.017	0.027	0.030	0.029	0.012	0.021	0.012	0.008	0.009	0.016	0.021	0.014
6	0.017	0.027	0.030	0.029	0.018	0.016	0.013	0.008	0.008	0.009	0.021	0.015
7	0.017	0.029	0.030	0.027	0.027	0.015	0.012	0.006	0.006	0.007	0.017	0.011
8	0.017	0.030	0.027	0.027	0.016	0.014	0.021	0.016	0.007	0.198	0.017	0.013
9	0.017	0.026	0.027	0.030	0.016	0.014	0.015	0.008	0.007	0.019	0.017	0.014
10	0.017	0.022	0.024	0.030	0.016	0.130	0.012	0.026	0.006	0.010	0.019	0.015
11	0.017	0.022	0.023	0.024	0.016	0.062	0.011	0.008	0.006	0.010	0.022	0.018
12	0.017	0.022	0.019	0.024	0.016	0.022	0.012	0.007	0.006	0.010	0.021	0.021
13	0.017	0.022	0.020	0.032	0.055	0.979	0.011	0.008	0.006	0.010	0.021	0.013
14	0.017	0.022	0.021	0.023	0.028	0.025	0.011	0.008	0.006	0.010	0.028	0.011
15	0.017	0.022	0.022	0.019	0.019	0.022	0.012	0.011	0.007	0.010	0.027	0.010
16	0.019	0.019	0.019	0.022	0.017	0.022	0.038	0.012	0.037	1.455	0.022	0.012
17	0.022	0.017	0.019	0.020	0.018	0.020	0.008	0.006	0.031	0.045	0.019	0.014
18	0.022	0.024	0.025	0.032	0.022	0.017	0.007	0.016	0.024	0.039	0.015	0.136
19	0.022	0.027	0.020	0.023	0.018	0.014	0.009	0.008	0.014	0.039	0.014	0.029
20	0.076	0.024	0.018	0.023	0.019	0.014	0.008	0.007	0.009	0.036	0.017	0.022
21	0.084	0.019	0.017	0.025	0.020	0.014	0.008	0.006	0.008	0.033	0.018	0.022
22	0.038	0.019	0.014	0.044	0.022	0.013	0.008	0.007	0.008	0.030	0.015	0.022
23	0.036	0.022	0.017	0.027	0.016	0.016	0.011	0.008	0.010	0.027	0.013	0.019
24	0.035	0.022	0.020	0.015	0.014	0.021	0.009	0.007	0.008	0.027	0.014	0.017
25	0.053	0.022	0.023	0.022	0.036	0.027	0.008	0.007	0.006	0.027	0.015	0.017
26	0.046	0.026	0.024	0.019	0.022	0.021	0.008	0.296	0.006	0.023	0.017	0.017
27	0.039	0.027	0.024	0.016	0.020	0.019	0.008	0.014	0.006	0.022	0.017	0.017
28	0.042	0.027	0.021	0.017	0.055	0.019	0.006	0.009	0.006	0.022	0.018	0.017
29	0.038	0.027	0.021	0.016	0.019	0.022	0.008	0.009	0.006	0.022	0.016	0.017
30	0.033		0.021	0.015	0.016	0.018	0.122	0.014	0.009	0.022	0.017	0.017
31	0.030		0.024		0.028		0.014	0.008		0.021		0.017
MEAN	0.0287	0.0242	0.0229	0.0246	0.0211	0.0558	0.0155	0.0190	0.0122	0.0718	0.0182	0.0207
INCHES	0.256	0.202	0.204	0.212	0.188	0.481	0.138	0.169	0.105	0.640	0.157	0.184
STA AV	0.254	0.564	0.642	0.353	0.686	3.224	0.315	0.331	0.669	0.331	0.213	0.216

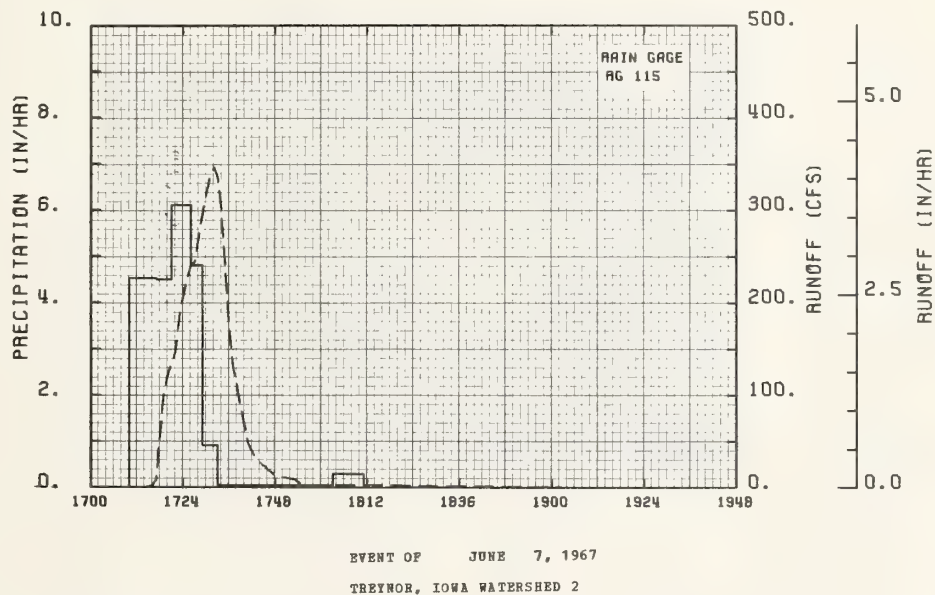
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.28746. STA AV are based on 5 yr record period.

1967			SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 2					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 7, 1967											
6- 7	RG 115 0.08	0.005	6- 7	RG 115 1710	0.0	0.0	6- 7	1709	0.030	0.0	
				1717	4.5428	0.53		1710	0.040	0.0	
				1721	4.5001	0.83		1711	0.070	0.0	
				1726	6.1204	1.34		1712	0.230	0.0	
				1729	4.7997	1.58		1713	0.290	0.0001	
WATERSHED CONDITIONS:				1733	0.9000	1.64		1714	0.450	0.0002	
95% contoured corn, 4-6				1803	0.0400	1.66		1716	2.630	0.0008	
in. tall less than 10%				1811	0.3000	1.70		1717	9.310	0.0020	
canopy, rotary hoed 3								1719	103.750	0.0246	
days prior to event; 5%								1720	123.850	0.0472	
quillies and grassed											
waterways, grass											
approximately 10-16 in. tall.											
30 Day Antecedent Conditions:								1722	147.600	0.1012	
	Date	Rainfall	Runoff					1723	185.500	0.1348	
	(inches)	(inches)	(inches)					1725	226.400	0.2167	
05-08 thru								1726	241.200	0.2632	
05-11	0.0	0.017						1727	244.300	0.3122	
05-12	0.16	0.005						1729	296.000	0.4196	
05-13 thru								1731	339.000	0.5468	
05-27	0.0	0.051						1732	346.500	0.6150	
05-28	0.51	0.006						1733	335.200	0.6828	
05-29	0.28	0.006						1734	299.400	0.7468	
05-30	1.42	0.017						1736	170.600	0.8403	
05-31	0.82	0.012						1737	131.900	0.8704	
06-01	0.08	0.007						1739	85.680	0.9140	
06-2,3	0.0	0.008						1741	45.840	0.9402	
06-04	1.47	0.186						1743	30.760	0.9555	
06-05	2.42	1.491									
06-06	0.0	0.006						1746	18.810	0.9704	
								1748	11.920	0.9765	
								1752	8.910	0.9848	
								1753	7.960	0.9865	
								1755	3.330	0.9887	
								1756	2.080	0.9892	
								1757	1.770	0.9896	
								1801	2.540	0.9913	
								1803	3.100	0.9924	
								1806	2.630	0.9941	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gages 116 and 118 are 1.52 in. and 1.24 in., respectively and the Thiessen weighted average event precipitation is 1.51 inches.

TREYNOR, IOWA WATERSHED 2									
1967 SELECTED RUNOFF EVENT									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
Acc. (inches)									
EVENT OF JUNE 7, 1967 (CONTINUED)									
							6- 7	1810	2.540
								1813	2.540
								1819	2.250
								1823	1.700
								1827	1.380
								1834	1.050
								1847	0.730
								1853	0.580
								1856	0.450
								1902	0.420

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.01198. Event precipitation totals for rain gages 116 and 118 are 1.52 in. and 1.24 in., respectively and the Thiessen weighted average event precipitation is 1.51 inches.



514

TREYNOR, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin.

AREA: 107.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								TREYNOR, IOWA WATERSHED 3									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	0.30	0.10	0.27	3.77	3.51	3.16	3.37	3.68	3.64	6.68	0.92	1.63	31.03			
	O	0.232	0.154	0.148	0.136	0.128	0.161	0.104	0.103	0.091	0.787	0.196	0.360	2.600			
STA AV	P	0.52	0.51	1.00	3.27	4.17	8.47	3.17	3.02	5.02	2.28	0.75	0.84	33.02			
	O	0.208	0.467	0.542	0.319	0.276	1.016	0.387	0.242	0.346	0.405	0.246	0.241	4.695			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		10- 8	0.267	10-16	0.185	10-16	0.333	10-16	0.468	10-16	0.495	10-16	0.503	10-16	0.513	10- 8	0.565
MAXIMUMS FOR PERIOD OF RECORD																	
		6-20	2.010	6-20	1.005	6-20	1.287	6-20	1.336	6-20	1.350	6-20	1.371	2-27	1.408	6-14	1.741
		1967		1967		1967		1967		1967		1967		1965		1967	

NOTES: Watershed conditions: 96% permanent pasture with controlled grazing; 4% gravel roads and farmstead. Precipitation: arithmetic average of gauges 113 and 114 before April 1 and after November 12; Thiessen average of gauges 112, 113 and 114 for remainder of year. Precipitation records began January 1, 1964. Runoff records began January 2, 1964, January 1, 1964 runoff estimated and included in average. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.3-4. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

1968 DAILY AIR TEMPERATURE (degrees F)													TREYNOR, IOWA WATERSHED 3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	16 14	38 24	60 20	58 24	88 52	80 55	80 54	80 56	77 53	85 59	67 44	34 32		
2	16 -6	43 22	34 14	46 34	90 56	90 59	74 54	82 58	86 56	70 45	47 38	42 34		
3	10 -10	44 28	42 10	68 38	70 50	94 62	85 52	84 67	80 59	59 38	55 30	39 26		
4	10 -4	50 28	66 23	37 22	60 38	90 65	88 62	87 70	69 53	64 33	60 34	55 26		
5	26 0	50 30	54 34	45 18	62 32	90 70	88 60	96 75	70 50	56 47	48 40	36 22		
6	0 -12	36 24	55 24	68 30	62 50	88 66	81 64	96 74	74 50	66 46	43 36	40 20		
7	6 -16	34 17	62 29	58 41	59 43	90 70	90 65	93 74	84 56	76 44	38 32	26 10		
8	23 12	44 14	62 42	60 40	72 43	91 68	96 65	84 70	72 56	63 58	31 22	32 8		
9	24 8	28 14	46 36	68 34	62 40	94 73	82 60	88 68	70 52	60 42	36 20	44 22		
10	19 4	20 4	41 26	72 32	66 40	86 60	88 56	68 54	74 48	66 39	31 28	46 22		
11	22 6	22 -1	44 22	87 41	62 39	79 60	96 66	75 51	76 46	73 46	30 20	52 32		
12	20 -2	19 8	36 12	76 54	70 38	78 57	89 70	82 54	78 48	73 58	27 6	60 14		
13	11 1	20 7	64 13	62 42	76 54	90 60	92 74	92 64	83 54	78 65	38 22	14 2		
14	20 2	27 5	64 34	52 35	80 54	76 58	94 72	86 64	83 58	79 64	37 28	12 -2		
15	22 4	37 -20	68 32	74 34	80 53	66 52	92 72	88 72	79 56	86 70	44 33	20 -1		
16	31 6	38 6	69 34	82 51	61 45	74 50	91 72	92 62	68 54	74 49	39 34	36 10		
17	38 20	20 -2	63 50	64 40	64 42	84 58	82 72	78 56	68 49	50 40	38 32	34 20		
18	40 26	38 2	74 48	52 40	50 40	88 64	90 70	82 66	56 52	56 39	34 27	34 30		
19	45 22	48 24	50 30	57 50	60 38	90 60	86 64	92 72	68 51	63 34	28 16	32 19		
20	49 26	22 3	37 22	60 45	62 41	92 70	90 62	94 73	73 48	69 38	49 16	19 11		
21	48 28	19 -4	38 22	67 39	68 42	88 64	92 70	94 75	86 66	74 48	60 36	31 14		
22	36 26	25 10	26 12	59 42	53 48	92 57	88 67	95 74	85 68	62 43	64 30	32 14		
23	31 19	30 4	44 14	52 34	68 50	94 68	84 72	96 70	76 62	61 44	54 36	14 4		
24	42 20	33 24	68 25	52 30	68 42	87 69	90 69	84 58	74 52	46 32	52 30	12 0		
25	46 26	34 28	74 46	45 28	58 52	77 51	86 67	84 55	78 48	60 31	48 31	20 9		
26	42 30	36 32	78 38	62 34	57 50	63 50	86 68	80 58	78 50	74 39	41 32	26 20		
27	35 30	44 29	69 46	67 43	71 46	77 48	86 64	82 62	76 49	48 36	39 19	26 14		
28	51 28	32 10	80 44	62 42	76 53	98 58	83 56	74 61	80 53	50 32	40 24	20 13		
29	51 16	33 4	71 44	76 43	72 50	95 66	86 58	66 60	74 54	66 32	39 18	22 7		
30	38 12		88 44	84 48	74 50	82 58	84 66	74 58	85 58	76 41	44 23	7 -16		
31	40 30		50 30		70 59		72 58	74 55		82 53		6 -9		
AV.	29 11	33 14	56 29	62 37	67 46	85 60	86 64	84 64	76 53	66 44	43 27	29 11		
MEAN	20.6	23.8	43.3	50.0	56.8	73.2	75.7	74.4	64.9	55.7	35.7	21.8		
STA AV	30 12	35 14	48 25	61 38	72 50	81 60	86 65	81 60	73 52	66 42	48 29	35 17		

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV based on 4 yr record period.

1968	DAILY PRECIPITATION (inches)						TREYNOR, IOWA WATERSHED 3					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.07
2	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	1.25	0.0	0.0	0.0
4	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.66	0.20	0.0
6	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.02	0.02	0.0
7	0.0	0.0	0.05	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.28	0.02	1.61	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.21	0.0	0.0	0.33	0.0
11	0.25	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
12	0.03	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.40	0.94	1.23	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.24	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.19	1.52	4.08	0.05	0.0
17	0.0	0.0	0.0	0.23	0.03	0.0	0.04	0.0	0.02	0.26	0.0	0.0
18	0.0	0.0	0.07	0.33	0.0	0.0	0.0	0.54	0.64	0.0	0.0	1.14
19	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28
22	0.0	0.0	0.0	0.77	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.51	0.0	0.19	0.07	0.18	0.02	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.07	0.36	0.0	0.0	0.0	0.0	0.0
25	0.0	0.08	0.0	0.0	0.91	0.34	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.02	0.0	0.0	0.02	0.03	0.0	1.34	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07
28	0.0	0.0	0.0	0.0	0.34	0.03	0.0	0.0	0.0	0.0	0.0	0.0
29	0.02	0.0	0.0	0.0	0.0	0.12	0.26	0.22	0.0	0.0	0.0	0.0
30	0.0	0.0	0.15	0.0	0.0	0.0	1.26	0.31	0.17	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.30	0.10	0.27	3.77	3.51	3.16	3.37	3.68	3.64	6.68	0.92	1.63
STA AV	0.52	0.51	1.00	3.27	4.17	8.47	3.17	3.02	5.02	2.28	0.75	0.84

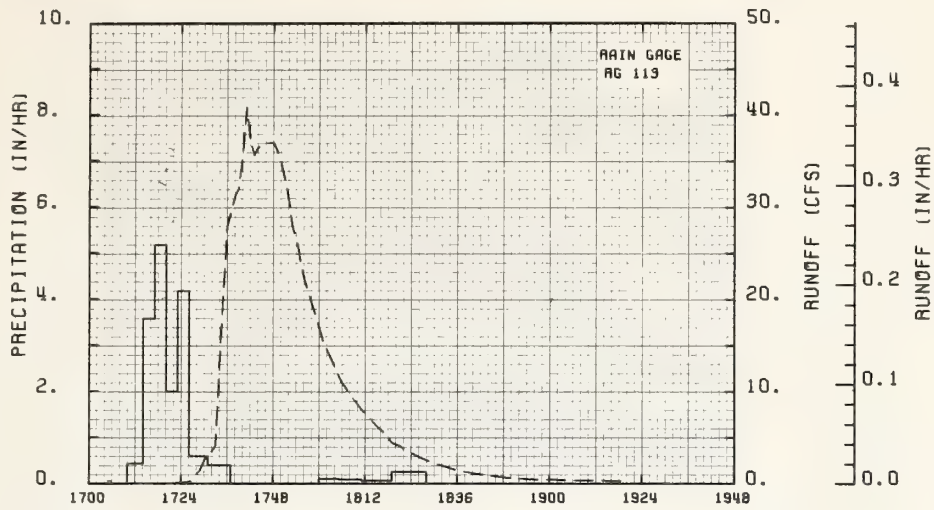
NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after November 12; Thiessen weighted average values from gauges 112, 113 and 114 for remainder of year. STA AV are based on 5 yr record period.

1968	MEAN DAILY DISCHARGE (cfs)						TREYNOR, IOWA WATERSHED 3					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.022	0.027	0.022	0.019	0.019	0.017	0.011	0.009	0.007	0.006	0.027	0.033
2	0.022	0.027	0.022	0.022	0.017	0.017	0.012	0.010	0.006	0.006	0.027	0.030
3	0.022	0.027	0.022	0.025	0.017	0.017	0.011	0.010	0.135	0.006	0.027	0.027
4	0.022	0.027	0.022	0.020	0.017	0.015	0.010	0.012	0.015	0.007	0.027	0.027
5	0.022	0.027	0.022	0.019	0.017	0.016	0.011	0.009	0.010	0.012	0.029	0.027
6	0.022	0.027	0.022	0.019	0.019	0.014	0.012	0.008	0.009	0.008	0.028	0.027
7	0.022	0.027	0.022	0.017	0.024	0.015	0.010	0.009	0.007	0.007	0.027	0.027
8	0.022	0.027	0.022	0.017	0.017	0.014	0.010	0.011	0.007	0.665	0.027	0.027
9	0.022	0.027	0.022	0.017	0.017	0.014	0.010	0.009	0.006	0.031	0.028	0.027
10	0.022	0.026	0.022	0.017	0.017	0.027	0.008	0.010	0.006	0.015	0.031	0.027
11	0.022	0.026	0.022	0.017	0.017	0.025	0.008	0.008	0.007	0.012	0.027	0.030
12	0.022	0.024	0.022	0.019	0.017	0.014	0.009	0.008	0.006	0.012	0.027	0.030
13	0.022	0.022	0.022	0.021	0.025	0.256	0.008	0.008	0.005	0.010	0.030	0.027
14	0.022	0.022	0.022	0.019	0.021	0.024	0.008	0.007	0.005	0.010	0.034	0.027
15	0.022	0.022	0.022	0.017	0.017	0.017	0.008	0.010	0.005	0.010	0.033	0.027
16	0.022	0.022	0.022	0.017	0.017	0.017	0.020	0.008	0.045	2.209	0.033	0.027
17	0.022	0.022	0.022	0.017	0.017	0.017	0.011	0.007	0.012	0.085	0.030	0.027
18	0.022	0.022	0.022	0.023	0.017	0.014	0.010	0.012	0.017	0.044	0.027	0.594
19	0.022	0.022	0.019	0.020	0.017	0.014	0.008	0.008	0.012	0.039	0.027	0.081
20	0.051	0.022	0.021	0.020	0.017	0.014	0.009	0.006	0.009	0.036	0.031	0.057
21	0.105	0.022	0.021	0.018	0.017	0.014	0.009	0.006	0.008	0.033	0.033	0.055
22	0.062	0.022	0.019	0.030	0.017	0.014	0.008	0.005	0.008	0.033	0.033	0.050
23	0.042	0.022	0.020	0.032	0.017	0.016	0.011	0.006	0.009	0.027	0.030	0.043
24	0.041	0.022	0.021	0.019	0.014	0.014	0.013	0.005	0.008	0.027	0.027	0.039
25	0.089	0.022	0.022	0.022	0.033	0.018	0.009	0.005	0.007	0.027	0.030	0.039
26	0.062	0.022	0.022	0.020	0.018	0.017	0.009	0.188	0.007	0.027	0.033	0.039
27	0.040	0.022	0.022	0.020	0.017	0.014	0.008	0.029	0.007	0.027	0.033	0.036
28	0.042	0.022	0.022	0.022	0.021	0.014	0.006	0.011	0.006	0.027	0.030	0.030
29	0.035	0.022	0.022	0.022	0.017	0.013	0.007	0.010	0.006	0.027	0.027	0.027
30	0.027	0.020	0.020	0.022	0.017	0.012	0.165	0.012	0.008	0.027	0.030	0.027
31	0.027	0.019	0.019	0.022	0.022	0.015	0.008	0.008	0.008	0.027	0.027	0.027
MEAN	0.0336	0.0239	0.0215	0.0203	0.0185	0.0241	0.0150	0.0150	0.0136	0.1142	0.0294	0.0522
INCHES	0.232	0.154	0.148	0.136	0.128	0.161	0.104	0.103	0.091	0.787	0.196	0.360
STA AV	0.208	0.467	0.542	0.319	0.276	1.016	0.387	0.242	0.346	0.405	0.246	0.241

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.22244. STA AV are based on 5 yr record period.

1967 SELECTED RUNOFF EVENT			TREYNOR, IOWA WATERSHED 3								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	
EVENT OF JUNE 7, 1967											
6-7	RG 113 0.17	0.005	6-7	RG 113 1710	0.0	0.0	6-7	1717	0.030	0.0	
				1714	0.4500	0.03		1719	0.040	0.0	
				1717	3.5998	0.21		1720	0.060	0.0	
				1720	5.1997	0.47		1722	0.150	0.0	
				1723	1.9999	0.57		1724	0.180	0.0001	
WATERSHED CONDITIONS:				1726	4.2010	0.78		1726	0.230	0.0002	
96% pasture, good stand,				1731	0.5999	0.83		1727	0.510	0.0003	
moderately grazed, 60%				1737	0.4000	0.87		1728	1.050	0.0004	
10-12 in. tall, 40% 2-4				1800	0.0	0.87		1729	1.630	0.0006	
in. tall; 4% gravel roads				1805	0.1200	0.88		1730	2.570	0.0009	
and farmstead.											
30 Day Antecedent Conditions:				1811	0.1000	0.89		1731	3.300	0.0014	
Date	Rainfall	Runoff		1819	0.0750	0.90		1732	3.580	0.0019	
05-08 thru	(inches)	(inches)		1828	0.2667	0.94		1733	4.190	0.0025	
05-27	0.0	0.061						1734	12.930	0.0038	
05-28	0.36	0.003						1735	20.920	0.0064	
05-29	0.29	0.003									
05-30	1.29	0.007						1736	28.070	0.0102	
05-31	0.71	0.005						1737	29.660	0.0146	
06-01	0.16	0.005						1738	31.320	0.0194	
06-02	0.0	0.003						1739	32.150	0.0243	
06-03	0.0	0.003						1740	35.660	0.0295	
06-04	1.23	0.004									
06-05	1.89	0.246						1741	40.820	0.0354	
06-06	0.0	0.007						1742	37.000	0.0415	
								1743	35.660	0.0471	
								1744	36.560	0.0527	
								1745	37.000	0.0584	
								1748	37.000	0.0755	
								1749	36.110	0.0812	
								1750	34.770	0.0867	
								1751	32.980	0.0919	
								1752	30.900	0.0968	
								1753	27.690	0.1014	
								1754	26.550	0.1056	
								1755	24.340	0.1095	
								1756	22.250	0.1131	
								1758	19.650	0.1196	
								1801	15.480	0.1277	
								1806	10.900	0.1379	
								1811	7.980	0.1452	
								1816	5.870	0.1506	
								1818	5.050	0.1523	
								1819	4.440	0.1530	
								1820	4.190	0.1537	
								1821	4.080	0.1543	
								1823	3.520	0.1555	
								1827	2.710	0.1574	
								1831	2.080	0.1589	
								1835	1.560	0.1600	
								1841	1.050	0.1612	
								1849	0.650	0.1623	
								1857	0.450	0.1630	
								1910	0.340	0.1638	
								1915	0.320	0.1641	
								1918	0.290	0.1642	
								1920	0.270	0.1643	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.009268. Event precipitation totals for rain gages 112 and 114 are 0.97 in. and 0.88 in., respectively and the Thiessen weighted average event precipitation is 0.93 in.



EVENT OF JUNE 7, 1967
TREYNOR, IOWA WATERSHED 3

TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin.

AREA: 150.00 acres

TREYNOR, IOWA WATERSHED 4																
MONTHLY PRECIPITATION AND RUNOFF (inches)																
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1968	P	0.29	0.10	0.27	3.86	3.49	3.32	3.45	3.85	3.96	6.92	1.09	1.57	32.17		
	Q	0.378	0.340	0.317	0.311	0.364	0.381	0.354	0.267	0.216	0.390	0.509	0.521	4.347		
STA AV	P	0.52	0.51	0.99	3.27	4.12	8.58	3.23	2.99	5.52	2.35	0.79	0.82	33.68		
	Q	0.409	0.422	0.663	0.448	0.516	1.251	0.970	0.593	0.650	0.637	0.553	0.486	7.597		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge	1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		2 Days		8 Days				
	Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	Date	Vol.	Date	Vol.	Date	Vol.	
1968	6-13	0.151	6-13	0.044	6-13	0.045	6-14	0.047	6-14	0.049	6-13	0.055	6-13	0.066	10-16	0.133
MAXIMUMS FOR PERIOD OF RECORD																
	6-25	0.296	6-22	0.166	6-20	0.228	2-28	0.352	2-28	0.496	2-28	0.645	2-28	0.758	6-20	1.072
1966			1964		1967		1965		1965		1965		1965		1967	

NOTES: Watershed conditions: 82% contoured corn above level terraces which have a capacity of 2 in. of runoff; 7% contoured corn below the bottom terraces; 10% grassed terrace back-slopes; 1% dully. Precipitation from gage 113 before April 1 and after November 12; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 27, 1964. January 1-February 27, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3, (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1194, p. 71.4-4. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

TREYNOR, IOWA WATERSHED 4													
DAILY PRECIPITATION (inches)													
1968	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.07
	2	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	1.46	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.66	0.20	0.0
	6	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.02	0.02	0.0
	7	0.0	0.0	0.05	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.25	0.02	1.60	0.0	0.0
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0
	10	0.0	0.0	0.0	0.0	0.0	0.92	0.0	0.21	0.0	0.0	0.51	0.0
	11	0.25	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
	12	0.02	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13	0.0	0.0	0.0	0.44	0.93	1.36	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.24	0.0	0.0	0.0	0.0
	16	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.21	1.62	4.25	0.05	0.0
	17	0.0	0.0	0.0	0.28	0.04	0.0	0.05	0.0	0.02	0.32	0.0	0.0
	18	0.0	0.0	0.07	0.34	0.0	0.0	0.0	0.55	0.66	0.0	0.0	1.06
	19	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	21	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27
	22	0.0	0.0	0.0	0.77	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	23	0.0	0.0	0.0	0.54	0.0	0.20	0.08	0.18	0.02	0.0	0.0	0.0
	24	0.0	0.0	0.0	0.0	0.0	0.10	0.44	0.0	0.0	0.0	0.0	0.0
	25	0.0	0.08	0.0	0.0	0.93	0.35	0.0	0.0	0.0	0.0	0.0	0.0
	26	0.0	0.02	0.0	0.0	0.03	0.02	0.0	1.40	0.0	0.0	0.0	0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09
	28	0.0	0.0	0.0	0.0	0.35	0.04	0.0	0.0	0.0	0.0	0.0	0.0
	29	0.02	0.0	0.0	0.0	0.0	0.12	0.26	0.22	0.0	0.0	0.0	0.0
	30	0.0	0.15	0.0	0.0	0.0	0.0	1.29	0.35	0.16	0.0	0.0	0.0
	31	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		0.29	0.10	0.27	3.86	3.49	3.32	3.45	3.85	3.96	6.92	1.09	1.57
STA AV		0.52	0.51	0.99	3.27	4.12	8.58	3.23	2.99	5.52	2.35	0.79	0.82

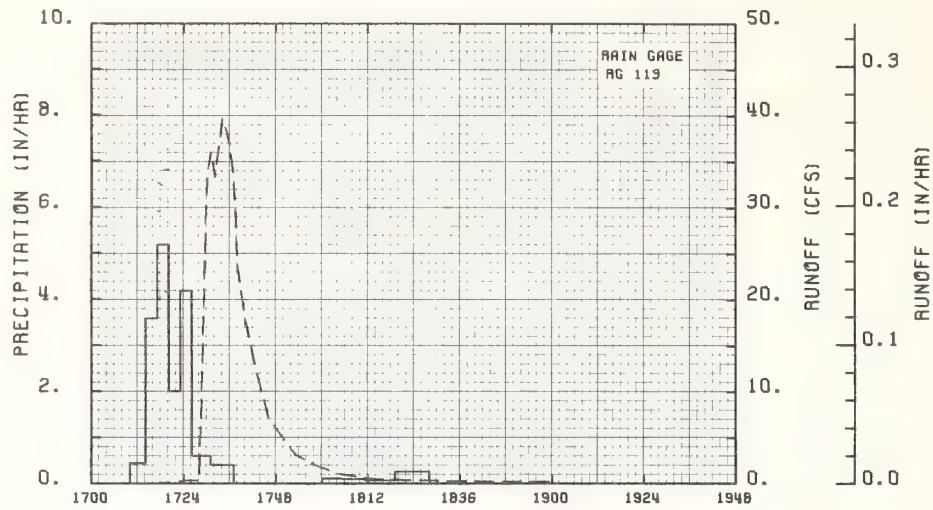
NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through November 12, and from 113 for remainder of year. STA AV are based on 5 yr record period.

TREYNOR, IOWA WATERSHED 4												
1968 MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.083	0.083	0.064	0.068	0.073	0.073	0.073	0.064	0.047	0.039	0.105	0.105
2	0.078	0.083	0.064	0.068	0.073	0.073	0.073	0.064	0.044	0.039	0.105	0.105
3	0.073	0.083	0.064	0.070	0.073	0.073	0.073	0.064	0.062	0.039	0.105	0.105
4	0.073	0.083	0.068	0.064	0.073	0.068	0.073	0.065	0.052	0.039	0.105	0.099
5	0.073	0.078	0.068	0.064	0.073	0.074	0.073	0.059	0.047	0.048	0.105	0.099
6	0.073	0.073	0.064	0.064	0.073	0.068	0.073	0.055	0.047	0.043	0.105	0.105
7	0.073	0.073	0.064	0.064	0.080	0.068	0.073	0.055	0.043	0.039	0.105	0.105
8	0.073	0.073	0.064	0.058	0.073	0.064	0.075	0.061	0.039	0.071	0.105	0.105
9	0.073	0.073	0.064	0.055	0.073	0.064	0.077	0.055	0.041	0.053	0.110	0.105
10	0.073	0.073	0.064	0.055	0.073	0.071	0.076	0.061	0.044	0.047	0.116	0.105
11	0.073	0.073	0.064	0.051	0.073	0.063	0.075	0.055	0.045	0.047	0.110	0.105
12	0.073	0.073	0.064	0.058	0.073	0.052	0.073	0.055	0.045	0.047	0.105	0.099
13	0.073	0.073	0.064	0.067	0.078	0.336	0.073	0.055	0.045	0.047	0.105	0.094
14	0.073	0.073	0.064	0.065	0.074	0.074	0.073	0.055	0.045	0.047	0.110	0.094
15	0.073	0.073	0.064	0.064	0.073	0.068	0.073	0.057	0.043	0.047	0.116	0.094
16	0.073	0.073	0.064	0.064	0.073	0.064	0.083	0.056	0.068	0.197	0.116	0.099
17	0.073	0.073	0.064	0.064	0.073	0.064	0.073	0.055	0.052	0.125	0.110	0.105
18	0.073	0.073	0.065	0.070	0.073	0.068	0.073	0.060	0.054	0.097	0.105	0.149
19	0.073	0.073	0.064	0.065	0.073	0.073	0.070	0.050	0.051	0.094	0.105	0.119
20	0.073	0.073	0.064	0.064	0.073	0.073	0.070	0.047	0.047	0.101	0.105	0.116
21	0.078	0.073	0.064	0.066	0.073	0.073	0.070	0.045	0.044	0.105	0.105	0.116
22	0.083	0.073	0.064	0.079	0.073	0.073	0.073	0.045	0.043	0.105	0.105	0.110
23	0.083	0.073	0.064	0.084	0.073	0.080	0.073	0.045	0.039	0.105	0.105	0.105
24	0.083	0.073	0.064	0.068	0.073	0.075	0.072	0.043	0.039	0.105	0.105	0.105
25	0.083	0.073	0.064	0.068	0.083	0.080	0.068	0.044	0.039	0.105	0.105	0.105
26	0.083	0.068	0.064	0.068	0.073	0.083	0.064	0.062	0.039	0.105	0.105	0.105
27	0.083	0.073	0.064	0.064	0.073	0.078	0.061	0.051	0.039	0.105	0.105	0.105
28	0.083	0.068	0.064	0.064	0.074	0.075	0.061	0.047	0.039	0.105	0.105	0.105
29	0.081	0.064	0.064	0.064	0.073	0.075	0.061	0.050	0.039	0.105	0.105	0.105
30	0.083		0.069	0.068	0.073	0.073	0.080	0.053	0.039	0.105	0.105	0.105
31	0.083		0.065		0.079		0.068	0.047		0.105		0.105
MEAN	0.0769	0.0739	0.0645	0.0653	0.0740	0.0800	0.0719	0.0542	0.0453	0.0794	0.1068	0.1060
INCHES	0.378	0.340	0.317	0.311	0.364	0.381	0.354	0.267	0.216	0.390	0.509	0.521
STA AV	0.409	0.422	0.663	0.448	0.516	1.251	0.970	0.593	0.650	0.637	0.553	0.486

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.15868. STA AV are based on 5 yr record period.

TREYNOR, IOWA WATERSHED 4												
1967 SELECTED RUNOFF EVENT												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 7, 1967												
RG	113		RG	113								
6- 7	0.17	0.0	6- 7	1710	0.0	0.0	6- 7	1718	0.090	0.0		
				1714	0.4500	0.03		1722	0.230	0.0001		
				1717	3.5998	0.21		1724	0.390	0.0003		
				1720	5.1997	0.47		1728	0.390	0.0003		
				1723	1.9999	0.57		1730	33.580	0.0041		
WATERSHED CONDITIONS:												
82% contoured corn above				1726	4.2010	0.78	1731	36.000	0.0079			
level terraces; 7% contoured				1731	0.5999	0.83	1732	33.280	0.0117			
corn below terraces,				1737	0.4000	0.87	1733	36.450	0.0155			
all corn 4-6 in. tall.				1800	0.0	0.87	1734	39.630	0.0193			
Less than 10% canopy;				1805	0.1200	0.88	1735	38.270	0.0236			
10% grassed terrace back-												
slopes grass 12-18 in. tall.				1811	0.1000	0.89	1736	36.450	0.0277			
				1819	0.0750	0.90	1737	32.370	0.0315			
30 Day Antecedent Conditions:				1828	0.2667	0.94	1738	23.290	0.0346			
Rainfall Runoff								1740	17.700	0.0391		
Date (inches) (inches)								1742	13.670	0.0426		
05-08 thru												
05-27	0.0	0.157					1744	10.150	0.0452			
05-28	0.36	0.009					1746	7.050	0.0471			
05-29	0.29	0.009					1753	3.090	0.0510			
05-30	1.29	0.012					1758	2.000	0.0524			
05-31	0.71	0.011					1804	1.040	0.0534			
06-01	0.16	0.010										
06-2,3	0.0	0.018					1814	0.450	0.0552			
06-04	1.23	0.010					1832	0.260	0.0559			
06-05	1.89	0.125					1840	0.210	0.0562			
06-06	0.0	0.013					1859	0.180	0.0566			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00661. Event precipitation totals for gages 111 and 112 are 1.07 in. and 0.97 in., respectively and the Thiessen average event precipitation is 1.00 in.



EVENT OF JUNE 7, 1967
TREYNOR, IOWA WATERSHED 4

TREYNOR, IOWA WATERSHED 5

LOCATION: Pottawattamie County, Iowa; approximately 9 miles southeast of Treynor and 3 miles southwest of Macedonia; West Nishnabotna River, Missouri River Basin.

AREA: 389.00 acres

TREYNOR, IOWA WATERSHED 5													
MONTHLY PRECIPITATION AND RUNOFF (inches)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1968	P 0.37	0.10	0.41	3.23	2.51	2.57	2.23	3.42	3.19	6.26	1.05	1.68	27.02
	O 0.300	0.189	0.213	0.200	0.159	0.091	0.070	0.069	0.041	0.231	0.129	0.190	1.882
STA AV	P 0.51	0.51	1.33	3.04	3.29	7.26	3.05	3.69	4.82	1.89	1.01	0.93	31.32
	O 0.250	0.348	0.636	0.325	0.301	1.290	0.545	0.336	0.515	0.338	0.297	0.282	5.464
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS													
Maximum Discharge Date Rate													
Maximum Volume for Selected Time Interval													
	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.						
1968	10-8 0.036	10-16 0.024	10-16 0.044	10-16 0.081	10-16 0.112	10-16 0.117	10-16 0.123	10-16 0.146					
MAXIMUMS FOR PERIOD OF RECORD													
	6-20 1.250	6-20 0.890	6-20 1.271	6-20 1.529	6-20 1.575	6-20 1.636	6-20 1.744	6-20 2.460					
	1967	1967	1967	1967	1967	1967	1967	1967					

NOTES: Watershed conditions: Percent crop distribution of area above or below level terraces, respectively is: corn, 24 and 6; beans, 24 and 0; small grain, 15 and 1; hay and clover, 7 and 1; pasture, 11 and 7; and roads and farmsteads, 1 and 3. Precipitation: Before April 4 and after November 1 arithmetic average of gages 101 and 108; Thiessen average of seven recording gages for remainder of year. Precipitation and runoff records began February 6, 1963. January 1-February 6, 1963 precipitation and runoff estimated and included in average. Maximum discharge rate and volumes for selected time intervals for the period of record reported previously are revised. For daily air temperature, in the vicinity, see table for Watershed 3, (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.5-6. For long-time precipitation records, see U.S. Weather Bureau records at Omaha, Nebraska.

TREYNOR, IOWA WATERSHED 5													
DAILY PRECIPITATION (inches)													
1968	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10
	2	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	1.07	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.20	0.0
	6	0.0	0.0	0.0	0.0	0.18	0.0	0.18	0.0	0.0	0.0	0.01	0.0
	7	0.0	0.0	0.05	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8	0.0	0.0	0.04	0.0	0.0	0.0	0.18	0.13	0.02	1.73	0.0	0.0
	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0
	10	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.29	0.0	0.0	0.49	0.0
	11	0.31	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
	12	0.04	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	13	0.0	0.0	0.0	0.24	0.73	0.98	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.02	0.0	0.0	0.0
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.45	0.97	3.58	0.04	0.0
	17	0.0	0.0	0.0	0.06	0.03	0.0	0.0	0.0	0.36	0.23	0.0	0.0
	18	0.0	0.0	0.22	0.94	0.0	0.0	0.0	0.65	0.67	0.0	0.0	1.14
	19	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11
	20	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	21	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14
	22	0.0	0.0	0.0	0.62	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.13
	23	0.0	0.0	0.0	0.10	0.0	0.39	0.13	0.43	0.0	0.0	0.0	0.0
	24	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
	25	0.0	0.10	0.0	0.0	0.51	0.28	0.0	0.0	0.0	0.0	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.40	0.0	0.03	0.0	0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.06
	28	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	29	0.02	0.0	0.0	0.0	0.0	0.17	0.20	0.21	0.0	0.0	0.0	0.0
	30	0.0	0.10	0.0	0.0	0.0	0.0	1.28	0.57	0.08	0.0	0.0	0.0
	31	0.0	0.0	0.0	0.36	0.0	0.04	0.03	0.0	0.0	0.0	0.0	0.0
TOTAL		0.37	0.10	0.41	3.23	2.51	2.57	2.23	3.42	3.19	6.26	1.05	1.68
STA AV		0.51	0.51	1.33	3.04	3.29	7.26	3.05	3.69	4.82	1.89	1.01	0.93

NOTES: Daily precipitation amounts are Thiessen weighted average values from seven stations (101 through 107) for period of April 4 through November 1 and are arithmetic averages from stations 101 and 108 for remainder of the year. STA AV are based on 6 yr record period.

TREYNOR, IOWA WATERSHED 5												
1968	MEAN DAILY DISCHARGE (cfs)											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.132	0.115	0.129	0.086	0.087	0.067	0.029	0.037	0.022	0.015	0.058	0.072
2	0.121	0.107	0.103	0.100	0.082	0.054	0.033	0.035	0.014	0.015	0.058	0.072
3	0.121	0.118	0.111	0.149	0.073	0.047	0.034	0.043	0.169	0.012	0.058	0.072
4	0.137	0.121	0.125	0.095	0.068	0.041	0.030	0.041	0.040	0.009	0.058	0.072
5	0.171	0.112	0.110	0.103	0.077	0.037	0.031	0.029	0.025	0.007	0.058	0.062
6	0.176	0.117	0.115	0.095	0.093	0.034	0.040	0.025	0.021	0.010	0.058	0.062
7	0.213	0.112	0.114	0.096	0.158	0.038	0.034	0.017	0.019	0.010	0.058	0.064
8	0.215	0.127	0.137	0.065	0.087	0.038	0.035	0.027	0.016	0.399	0.052	0.049
9	0.199	0.118	0.112	0.069	0.079	0.039	0.034	0.035	0.015	0.177	0.047	0.047
10	0.182	0.107	0.099	0.069	0.082	0.043	0.031	0.058	0.015	0.035	0.048	0.058
11	0.181	0.100	0.094	0.065	0.082	0.068	0.033	0.029	0.013	0.029	0.074	0.083
12	0.164	0.099	0.126	0.070	0.074	0.043	0.034	0.024	0.015	0.029	0.086	0.116
13	0.164	0.102	0.137	0.101	0.111	0.141	0.028	0.026	0.015	0.029	0.091	0.094
14	0.164	0.104	0.121	0.085	0.130	0.109	0.021	0.022	0.015	0.029	0.094	0.052
15	0.153	0.127	0.121	0.070	0.079	0.047	0.019	0.030	0.015	0.029	0.126	0.024
16	0.143	0.114	0.121	0.072	0.076	0.047	0.033	0.124	0.015	1.601	0.097	0.020
17	0.156	0.091	0.132	0.077	0.076	0.052	0.032	0.022	0.018	0.396	0.079	0.043
18	0.167	0.101	0.162	0.250	0.072	0.045	0.026	0.124	0.016	0.082	0.065	0.415
19	0.165	0.103	0.134	0.126	0.068	0.041	0.014	0.032	0.018	0.072	0.058	0.092
20	0.185	0.094	0.099	0.109	0.072	0.032	0.021	0.022	0.015	0.072	0.065	0.065
21	0.191	0.099	0.100	0.090	0.077	0.033	0.013	0.019	0.015	0.072	0.072	0.058
22	0.142	0.090	0.100	0.132	0.079	0.031	0.012	0.014	0.015	0.072	0.072	0.061
23	0.121	0.090	0.100	0.132	0.080	0.049	0.015	0.030	0.018	0.072	0.072	0.110
24	0.130	0.103	0.106	0.099	0.068	0.047	0.015	0.023	0.018	0.072	0.072	0.118
25	0.155	0.103	0.103	0.103	0.112	0.055	0.015	0.014	0.015	0.072	0.072	0.172
26	0.150	0.103	0.103	0.099	0.105	0.052	0.015	0.022	0.015	0.065	0.072	0.189
27	0.138	0.113	0.105	0.096	0.071	0.043	0.015	0.032	0.015	0.058	0.072	0.176
28	0.163	0.103	0.094	0.096	0.069	0.036	0.015	0.019	0.015	0.058	0.072	0.176
29	0.148	0.103	0.098	0.098	0.070	0.044	0.019	0.027	0.015	0.058	0.072	0.165
30	0.119	0.094	0.094	0.091	0.063	0.027	0.269	0.089	0.015	0.058	0.072	0.125
31	0.131		0.084		0.073		0.149	0.031		0.058		0.121
MEAN	0.1581	0.1068	0.1126	0.1091	0.0837	0.0494	0.0369	0.0362	0.0222	0.1217	0.0703	0.1002
INCHES	0.300	0.189	0.213	0.200	0.159	0.091	0.070	0.069	0.041	0.231	0.129	0.190
STA AV	0.250	0.348	0.636	0.325	0.301	1.290	0.545	0.336	0.515	0.338	0.297	0.282

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.06119. STA AV are based on 6 yr record period.

COTTONWOOD, SOUTH DAKOTA WATERSHED H-2

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.

AREA: 2.13 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							COTTONWOOD, SOUTH DAKOTA WATERSHED H-2										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1968	P	0.29	0.17	0.10	1.56	1.46	6.47	1.03	1.81	0.48	0.08	0.36	0.76	14.57			
	O	0.0	0.0	0.0	0.0	0.0	0.414	0.0	0.0	0.0	0.0	0.0	0.0	0.414			
STA AV	P	0.27	0.19	0.66	1.98	2.83	4.34	1.11	1.34	1.26	0.40	0.21	0.45	15.00			
	O	0.091	0.0	0.117	0.006	0.220	0.469	0.018	0.017	0.018	0.0	0.0	0.0	0.956			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6- 7	0.703	6- 7	0.264	6- 7	0.271	6- 7	0.273	6- 7	0.273	6- 8	0.374	6- 7	0.374	6- 1	0.412
MAXIMUMS FOR PERIOD OF RECORD																	
		5-30	3.577	5-30	0.608	5-30	0.629	5-30	1.129	5-30	1.129	5-30	1.129	5-30	1.129	6-11	1.372
		1963		1963		1963		1963		1963		1963		1963		1967	

NOTES: Watershed conditions: 100% heavily grazed rangeland. Vegetative cover in late July was 436.9 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72.1-5. For temperature information, see table of maximum and minimum values included for Watershed 72.005. Arithmetic mean of rain gages RH-1, RH-2, RH-3 and RH-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 6 yr record period. For long-time precipitation records, see U.S. Weather Station records at Cottonwood, South Dakota.

1968 DAILY PRECIPITATION (inches)													
COTTONWOOD, SOUTH DAKOTA WATERSHED H-2													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06S
2	0.01S	0.0	0.0	0.16S	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.02S
3	0.07S	0.0	0.0	0.58S	0.0	0.0	0.01	0.0	0.02	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.16S	0.0	0.0
5	0.08S	0.0	0.0	0.0	0.09	0.23	0.0	0.0	0.0	0.0	0.02S	0.0	0.0
6	0.0	0.0	0.0	0.0	0.03	1.22	0.0	0.0	0.0	0.0	0.02S	0.0	0.0
7	0.0	0.0	0.0	0.05S	0.37	1.10	0.0	0.0	0.07	0.0	0.03S	0.0	0.0
8	0.0	0.0	0.0	0.02S	0.03	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.41	0.0	0.0	0.08S	0.0	0.0
10	0.0	0.0	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.0	0.02S	0.0	0.0
11	0.0	0.03S	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24S
13	0.0	0.0	0.0	0.10S	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.11S
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.31	0.36	0.0	0.0	0.04	0.08S	0.01S	0.02S	0.0
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.19	0.0	0.0	0.02S	0.0
17	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.05S	0.0	0.07	0.40	0.0	0.01	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.05S	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.02S	0.0
21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.10S
22	0.0	0.0	0.0	0.12S	0.31	0.0	0.04	0.0	0.05	0.0	0.0	0.0	0.06S
23	0.0	0.01S	0.01S	0.0	0.02	0.68	0.0	0.03	0.0	0.0	0.0	0.0	0.0
24	0.0	0.02S	0.0	0.0	0.0	0.60	0.95	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.03S	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.02S	0.07S	0.0
26	0.04S	0.03S	0.0	0.05S	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.02S	0.0
30	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.29	0.17	0.10	1.56	1.46	6.47	1.03	1.81	0.48	0.08	0.36	0.76	
STA AV	0.27	0.19	0.66	1.98	2.83	4.34	1.11	1.34	1.26	0.40	0.21	0.45	

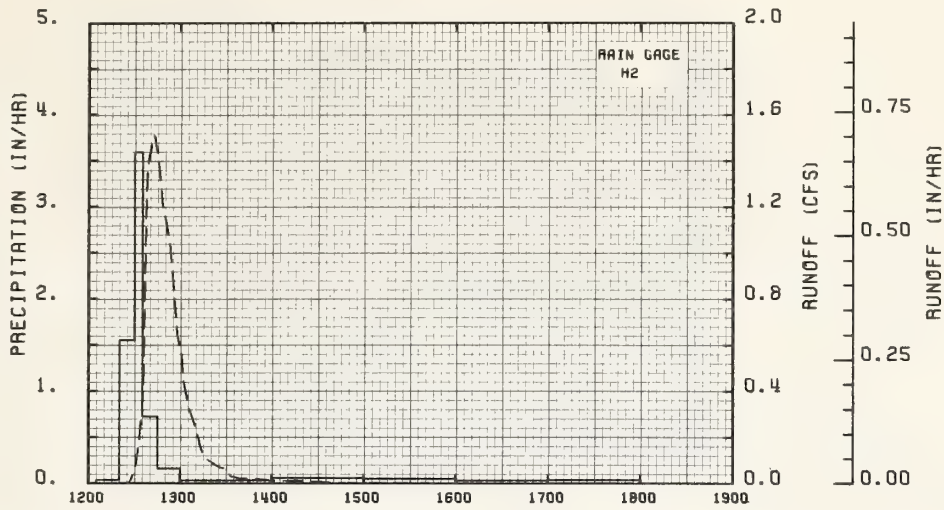
NOTES: Arithmetic mean of rain gages RH-1, RH-2, RH-3 and RH-4. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) COTTONWOOD, SOUTH DAKOTA WATERSHED H-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0012	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.414	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.091	0.0	0.117	0.006	0.220	0.469	0.018	0.017	0.018	0.0	0.0	0.0

NOTES: STA AV based on 6 yr record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 11.1745.

1968 SELECTED RUNOFF EVENT COTTONWOOD, SOUTH DAKOTA WATERSHED H-2											
ANTECEDENT CONDITIONS			RAINFALL								
Date	Painfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Runoff	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(cfs)	(inches)
EVENT OF JUNE 7, 1968											
6- 7	RG H2 0.0	0.003	6- 7	RG H2	0.0	0.0	6- 7	1226	0.0	0.0	
				1205	0.0400	0.01		1228	0.02	0.0001	
				1230	1.5600	0.27		1231	0.08	0.0013	
				1235	3.6000	0.57		1233	0.18	0.0033	
				1245	0.7200	0.69		1235	0.32	0.0072	
WATERSHED CONDITIONS: 100% heavily grazed range- land; vegetative cover in late July was 436.9 lbs./acre (oven-dry weight).				1300	0.1600	0.73		1236	0.50	0.0104	
				1400	0.0300	0.76		1238	1.30	0.0244	
				1500	0.0600	0.82		1239	1.40	0.0349	
				1600	0.0500	0.87		1242	1.50	0.0686	
				1700	0.0300	0.90		1243	1.51	0.0802	
				1800	0.0400	0.94		1246	1.37	0.1138	
								1248	1.22	0.1338	
								1253	1.04	0.1778	
								1256	0.80	0.1991	
								1258	0.64	0.2103	
								1301	0.55	0.2242	
								1302	0.44	0.2280	
								1306	0.32	0.2398	
								1310	0.24	0.2485	
								1312	0.19	0.2518	
								1313	0.16	0.2531	
								1315	0.12	0.2553	
								1318	0.10	0.2579	
								1325	0.07	0.2625	
								1330	0.06	0.2649	
								1333	0.03	0.2659	
								1338	0.02	0.2670	
								1345	0.02	0.2680	
								1401	0.01	0.2695	
								1418	0.01	0.2705	
								1443	0.0	0.2716	
								1516	0.0	0.2726	
								1545	0.0	0.2732	
								1616	0.0	0.2735	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4656.



EVENT OF JUNE 7, 1968
COTTONWOOD, SOUTH DAKOTA WATERSHED H-2

COTTONWOOD, SOUTH DAKOTA WATERSHED L-2

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.

AREA: 2.38 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COTTONWOOD, SOUTH DAKOTA WATERSHED L-2													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1968	P	0.25	0.17	0.09	1.63	1.48	6.23	1.08	1.89	0.51	0.08	0.34	0.57	14.32													
	O	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.021													
STA AV	P	0.25	0.20	0.62	1.96	2.82	4.33	1.06	1.35	1.29	0.39	0.20	0.35	14.79													
	O	0.0	0.0	0.280	0.0	0.045	0.328	0.001	0.0	0.0	0.0	0.0	0.0	0.654													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
	Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.											
1968	6-7	0.090	6-7	0.017	6-7	0.017	6-7	0.017	6-7	0.017	6-8	0.019	6-7	0.019	6-1	0.020											
MAXIMUMS FOR PERIOD OF RECORD																											
	6-15 1963	0.542	6-15 1963	0.388	6-15 1963	0.540	6-15 1963	1.073	6-15 1963	1.164	6-15 1963	1.243	6-15 1963	1.243	3-8 1966	1.544											

NOTES: Watershed conditions: 100% lightly grazed rangeland. Vegetative cover in late July was 839.5 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72.2-4. For temperature information, see table of maximum and minimum values included for Watershed 72.005. Arithmetic mean of rain gages RL-1, RL-2, RL-3 and RL-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 6 yr record period. For long-time precipitation records, see U.S. Weather Station records at Cottonwood, South Dakota.

1968 DAILY PRECIPITATION (inches)														COTTONWOOD, SOUTH DAKOTA WATERSHED L-2													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05S														
	2	0.03S	0.0	0.0	0.13S	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.02S														
	3	0.06S	0.0	0.0	0.69S	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0														
	4	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.11S	0.0														
	5	0.08S	0.0	0.0	0.0	0.06	0.23	0.0	0.0	0.0	0.0	0.03S	0.0														
	6	0.0	0.0	0.0	0.0	0.04	1.20	0.0	0.0	0.0	0.0	0.04S	0.0														
	7	0.0	0.0	0.0	0.04S	0.36	1.12	0.0	0.0	0.09	0.0	0.04S	0.0														
	8	0.0	0.0	0.0	0.02S	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0														
	9	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.41	0.0	0.0	0.05S	0.0														
	10	0.0	0.0	0.0	0.0	0.02	0.05	0.0	0.0	0.0	0.0	0.03S	0.0														
	11	0.0	0.03S	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0														
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.17S														
	13	0.0	0.0	0.0	0.09S	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02S														
	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0														
	15	0.0	0.0	0.0	0.0	0.35	0.36	0.0	0.0	0.04	0.08S	0.01S	0.01S														
	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.01S														
	17	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.34	0.0	0.0	0.01S	0.0														
	18	0.0	0.0	0.07S	0.0	0.09	0.23	0.0	0.07	0.0	0.0	0.0	0.0														
	19	0.0	0.0	0.02S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01S														
	20	0.0	0.06S	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.01S														
	21	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.04	0.0	0.04	0.0	0.09S														
	22	0.0	0.0	0.0	0.13S	0.30	0.0	0.04	0.0	0.05	0.0	0.0	0.11S														
	23	0.0	0.01S	0.0	0.0	0.02	0.66	0.0	0.04	0.0	0.0	0.0	0.0														
	24	0.0	0.02S	0.0	0.0	0.0	0.65	0.98	0.0	0.0	0.0	0.0	0.0														
	25	0.0	0.05S	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.02S	0.04S														
	26	0.04S	0.0	0.0	0.05S	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0														
	27	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.01S														
	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0														
	29	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.02S														
	30	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	0.0	0.0	0.0														
	31	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL		0.25	0.17	0.09	1.63	1.48	6.23	1.08	1.89	0.51	0.08	0.34	0.57														
STA AV		0.25	0.20	0.62	1.96	2.82	4.33	1.06	1.35	1.29	0.39	0.20	0.35														

NOTES: Arithmetic mean of rain gages RL-1, RL-2, RL-3 and RL-4. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) COTTONWOOD, SOUTH DAKOTA WATERSHED L-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0001	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.280	0.0	0.045	0.328	0.001	0.0	0.0	0.0	0.0	0.0

NOTES: STA AV based on 6 yr record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 10.0007.

COTTONWOOD, SOUTH DAKOTA WATERSHED M-1

LOCATION: Jackson County, South Dakota; approximately 3 miles east southeast of Cottonwood, Bad River Basin.

AREA: 2.35 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COTTONWOOD, SOUTH DAKOTA WATERSHED M-1											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1968	P	0.30	0.18	0.10	1.87	1.46	6.34	1.06	1.80	0.48	0.08	0.34	0.89	14.90											
	O	0.0	0.0	0.0	0.0	0.0	0.173	0.0	0.0	0.0	0.0	0.0	0.0	0.173											
STA AV	P	0.26	0.19	0.64	2.00	2.83	4.38	1.09	1.34	1.24	0.41	0.22	0.47	15.05											
	O	0.0	0.0	0.319	0.0	0.220	0.311	0.001	0.002	0.0	0.0	0.0	0.0	0.853											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1968		6-7	0.569	6-7	0.154	6-7	0.155	6-7	0.155	6-7	0.155	6-8	0.159	6-7	0.167	6-1	0.172								
MAXIMUMS FOR PERIOD OF RECORD																									
		5-30	2.030	5-30	0.710	5-30	0.760	5-30	1.122	5-30	1.122	5-30	1.122	3-8	1.538	3-8	1.913								
		1963		1963		1963		1963		1963		1963		1966		1966									

NOTES: Watershed conditions: 100% moderately grazed rangeland. Vegetative cover in late July was 359.4 lbs./acre (oven-dry weight). For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 72.5-7. Arithmetic mean of rain gages RM-1, RM-2, RM-3 and RM-4. Precipitation and runoff records began January 1963. Precipitation and runoff STA AV based on 6 yr record period. For long-time precipitation records, see U.S. Weather Station records at Cottonwood, South Dakota.

1968 DAILY AIR TEMPERATURE (degrees F)														COTTONWOOD, SOUTH DAKOTA WATERSHED M-1											
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
		max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min												
1		28 -5	43 13	58 27	69 27	86 38	81 41	70 49	88 42	82 40	86 39	58 27	48 28												
2		-5 -19	48 13	55 17	66 27	80 38	91 42	75 40	94 49	80 49	85 41	59 23	34 24												
3		14 -33	53 16	58 7	49 18	68 33	99 52	83 50	96 53	75 50	57 25	65 30	40 11												
4		11 -16	42 22	67 22	38 5	65 27	98 55	85 49	98 57	70 36	78 26	61 32	48 25												
5		32 -6	54 17	60 20	54 6	72 34	79 53	81 58	100 56	71 37	76 44	49 30	30 12												
6		-3 -25	47 20	71 26	58 36	69 50	77 55	87 55	100 67	84 42	75 30	32 26	36 7												
7		1 -29	45 9	68 30	47 37	55 39	71 55	90 54	102 62	88 47	75 41	31 24	32 -2												
8		20 -18	46 19	57 28	52 32	56 45	69 56	86 59	98 57	65 49	67 43	41 20	41 9												
9		24 0	51 16	49 23	61 25	63 27	79 58	85 52	92 57	76 34	63 26	38 29	53 20												
10		39 3	40 22	43 25	75 32	64 32	74 55	96 54	67 57	87 37	76 22	37 16	54 9												
11		35 15	42 20	42 19	83 38	58 28	75 52	96 54	83 56	92 43	73 33	38 10	67 22												
12		25 -2	26 7	46 7	81 34	74 34	88 46	94 60	89 58	98 52	85 36	53 18	48 11												
13		23 -13	22 1	64 15	47 29	76 52	88 59	95 62	88 50	94 55	88 52	55 32	14 0												
14		41 2	28 2	62 37	60 24	79 41	74 53	94 58	73 54	97 50	85 46	44 27	17 -16												
15		38 5	37 11	60 23	80 27	78 46	71 49	98 66	85 57	95 48	69 48	42 15	36 4												
16		43 16	36 12	69 16	78 40	64 37	73 43	96 66	85 50	77 47	64 42	45 34	42 3												
17		40 12	24 -9	72 29	49 35	63 34	87 52	93 64	77 42	70 46	53 38	36 22	40 19												
18		36 13	26 -1	64 32	48 25	60 35	86 56	89 57	77 54	80 38	56 17	30 18	32 17												
19		42 23	36 21	33 25	55 36	54 33	93 56	84 55	85 53	78 38	68 22	35 13	23 9												
20		49 25	40 6	33 10	63 37	59 28	92 56	104 60	88 55	78 44	79 24	66 25	16 -2												
21		50 26	16 2	32 13	61 30	73 31	93 55	98 57	92 57	80 57	62 44	60 32	13 3												
22		44 32	21 8	36 -5	53 32	71 48	87 55	92 56	93 56	76 49	60 24	65 34	12 9												
23		43 21	33 15	63 11	54 29	63 46	84 55	93 60	83 66	74 33	59 31	55 30	11 0												
24		62 34	50 21	69 27	58 24	61 45	74 59	87 57	82 51	73 38	68 19	51 25	5 -3												
25		49 28	50 34	68 33	62 34	66 36	67 48	83 53	89 43	78 35	71 27	48 30	32 2												
26		36 27	50 26	65 28	60 40	68 41	68 44	87 63	89 47	78 37	70 27	41 24	21 10												
27		27 10	46 22	67 29	60 34	71 44	88 49	87 56	85 56	80 33	50 34	54 19	18 11												
28		34 15	35 21	74 30	68 29	75 44	87 63	85 59	87 60	77 34	71 19	42 23	11 1												
29		29 15	60 8	73 30	77 37	80 40	79 50	93 61	80 55	78 33	83 33	46 11	4 -17												
30		56 21		78 26	87 40	80 53	75 51	93 64	76 51	83 40	86 32	58 19	-4 -25												
31		49 31		60 20		73 49		88 43	78 45		68 38		10 -17												
AV.		32 6	39 13	58 22	61 30	68 39	81 52	89 56	87 54	80 42	71 33	47 24	28 6												
MEAN		19.7	26.6	40.3	45.9	53.8	67.0	72.9	70.6	61.5	52.1	35.9	17.3												
STA AV		33 6	36 9	46 19	61 32	71 42	81 53	91 59	89 55	79 46	66 33	49 20	36 10												

NOTES: Temperature data from U.S. Weather Station records at Cottonwood, South Dakota for 24 hour period ending at 1700. STA AV based on 59 yr record period.

1968 DAILY PRECIPITATION (inches) COTTONWOOD, SOUTH DAKOTA WATERSHED N-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.11S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07S
2	0.02S	0.0	0.0	0.16S	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.01S
3	0.05S	0.0	0.0	0.84S	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.15S	0.0
5	0.08S	0.0	0.0	0.0	0.05	0.19	0.0	0.0	0.0	0.0	0.02S	0.0
6	0.0	0.0	0.0	0.0	0.07	1.24	0.0	0.0	0.0	0.0	0.02S	0.0
7	0.0	0.0	0.0	0.05S	0.37	1.17	0.0	0.0	0.07	0.0	0.03S	0.0
8	0.0	0.0	0.0	0.02S	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.41	0.0	0.0	0.07	0.0
10	0.0	0.0	0.0	0.01S	0.02H	0.04	0.0	0.0	0.0	0.0	0.02	0.0
11	0.0	0.04	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31S
13	0.0	0.0	0.0	0.14	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.12
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.33	0.36	0.0	0.0	0.04	0.08	0.02S	0.02S
16	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.19	0.0	0.0	0.02S
17	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.30	0.0	0.0	0.0	0.0
18	0.0	0.0	0.06S	0.0	0.09	0.33	0.0	0.10	0.0	0.0	0.0	0.0
19	0.0	0.0	0.04S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.06S	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.02S
21	0.0	0.0	0.0	0.46S	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.12S
22	0.0	0.0	0.0	0.14S	0.30	0.0	0.04	0.0	0.05	0.0	0.0	0.10S
23	0.0	0.01S	0.0	0.0	0.03	0.65	0.0	0.03	0.0	0.0	0.0	0.0
24	0.0	0.02S	0.0	0.0	0.0	0.63	0.97	0.0	0.0	0.0	0.0	0.0
25	0.0	0.05S	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.01S	0.05S
26	0.04S	0.0	0.0	0.05	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.02S
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.03S
30	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.30	0.18	0.10	1.87	1.46	6.34	1.06	1.80	0.48	0.08	0.34	0.89
STA AV	0.26	0.19	0.64	2.00	2.83	4.38	1.09	1.34	1.24	0.41	0.22	0.47

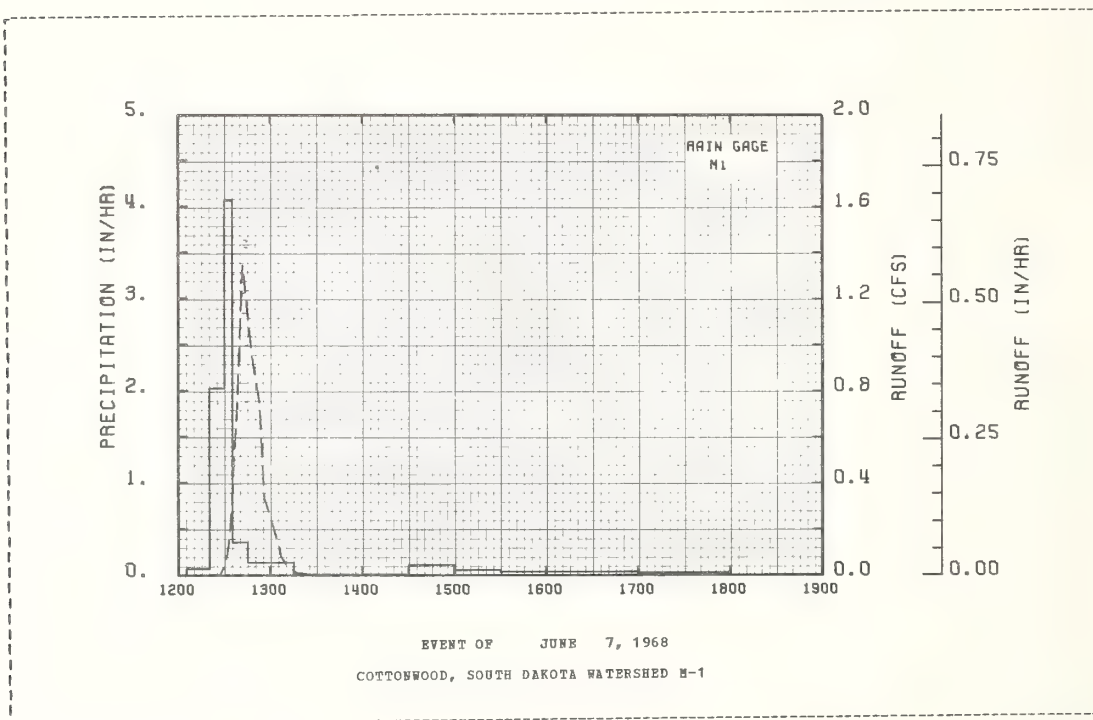
NOTES: Arithmetic mean of rain gages RM-1, RM-2, RM-3 and RM-4. STA AV based on 6 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) COTTONWOOD, SOUTH DAKOTA WATERSHED N-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0006	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.173	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.319	0.0	0.220	0.311	0.001	0.002	0.0	0.0	0.0	0.0

NOTES: STA AV based on 6 yr record period. To convert mean daily discharge in CFS to IN/DAY, multiply by 10.1283.

1968			COTTONWOOD, SOUTH DAKOTA WATERSHED M-1							
SELECTED RUNOFF EVENT			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 7, 1968										
6- 7	RG M1 0.0	0.0	6- 7	RG M1 1205	0.0	0.0	6- 7	1227	0.0	0.0
				1220	0.0800	0.02		1228	0.02	0.0001
				1230	2.0800	0.36		1231	0.06	0.0009
				1235	4.0800	0.70		1233	0.15	0.0024
				1245	0.3600	0.76		1235	0.32	0.0057
WATERSHED CONDITIONS: 100% moderately grazed rangeland; vegetative cover in late July was 359.4 lbs. per acre (oven-dry weight).				1315	0.1400	0.83		1236	0.49	0.0085
				1430	0.0080	0.84		1238	0.69	0.0168
				1500	0.1200	0.90		1242	1.35	0.0455
				1530	0.0600	0.93		1245	1.15	0.0719
				1600	0.0400	0.95		1248	0.95	0.0939
				1700	0.0400	0.99		1253	0.74	0.1236
				1800	0.0300	1.02		1256	0.33	0.1348
								1301	0.23	0.1446
								1305	0.14	0.1497
								1307	0.08	0.1513
							1311	0.04	0.1530	
							1317	0.01	0.1541	
							1330	0.0	0.1548	
							1346	0.0	0.1550	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.4220.



AHOSKIE, NORTH CAROLINA WATERSHED W-A1

LOCATION: Hertford, Bertie, and Northampton Counties, North Carolina; approximately 3/4 mile southwest of Ahoskie; Chowan River Basin.

AREA: 36480.00 acres 57.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A1															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	3.96	0.97	4.74	3.11	4.56	4.56	6.49	1.65	1.24	3.83	2.98	1.88	39.97															
	O	3.893	0.357	3.616	1.427	0.735	0.750	1.597	0.173	0.102	0.153	0.267	0.235	13.304															
STA AV	P	3.61	3.06	2.90	1.90	3.76	4.70	5.12	4.93	2.35	1.72	1.62	2.59	38.24															
	O	2.158	1.994	2.599	0.709	0.656	0.877	1.202	1.168	0.281	0.151	0.164	0.584	12.543															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0	1- 1	0.0										
MAXIMUMS FOR PERIOD OF RECORD																													
		10- 5	0.070	10- 5	0.070	10- 5	0.140	10- 5	0.420	10- 5	0.830	10- 5	1.650	10- 5	3.020	10- 3	4.140												
		1964		1964		1964		1964		1964		1964		1964		1964													

NOTES: Watershed conditions: Woodland, 65%; row crops, 30%; pasture, 2%; roads, urban, and homesites, 3%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation began in 1964. Records of runoff began in 1950. STA AV computed on 1965 thru 68 data. Precipitation Thiessen weighted using 10 gages. Maximum volumes of runoff not available for 1968. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968 DAILY AIR TEMPERATURE (degrees F)														AHOSKIE, NORTH CAROLINA WATERSHED W-A1													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	42	32	50	39	40	25	75	49	79	42	81	49	95	69	91	71	80	62	85	46	NR	NR	56	27			
2	41	25	68	41	61	31	60	36	78	48	87	60	93	71	90	72	86	62	89	51	NR	NR	63	46			
3	50	32	65	31	59	32	57	40	86	52	82	63	92	72	92	72	86	61	89	63	NR	NR	57	42			
4	57	42	53	24	56	14	78	53	87	61	82	56	88	66	94	73	86	60	86	57	NR	NR	61	42			
5	48	23	54	23	63	29	77	64	75	54	83	50	78	65	92	68	88	60	67	30	NR	NR	58	31			
6	34	18	57	21	64	28	67	45	69	44	85	49	84	65	94	69	85	65	75	31	NR	NR	55	28			
7	41	30	51	35	56	37	67	33	69	38	85	55	85	57	96	71	84	66	79	62	NR	NR	52	22			
8	33	13	44	46	63	22	80	44	73	35	87	68	86	59	95	70	85	55	78	49	NR	NR	45	19			
9	30	17	51	22	76	49	81	56	78	45	83	66	84	60	95	70	84	57	74	49	NR	NR	37	20			
10	31	24	49	26	70	58	70	47	80	55	87	67	94	68	94	70	82	66	73	51	NR	NR	31	20			
11	30	23	34	18	67	43	57	46	80	56	84	67	86	70	90	62	85	62	75	58	NR	NR	37	15			
12	29	9	39	9	64	44	69	35	81	64	86	70	82	69	82	61	84	52	75	50	NR	NR	50	13			
13	53	24	38	15	68	36	77	37	79	62	83	64	88	69	85	56	81	50	80	54	NR	NR	67	25			
14	55	31	52	16	45	23	83	40	70	53	79	51	90	69	91	68	84	51	81	58	NR	NR	62	46			
15	39	25	51	30	62	25	81	46	68	55	88	52	90	69	92	68	84	46	80	60	NR	NR	48	26			
16	44	26	51	18	70	42	65	41	80	58	89	63	93	69	89	69	83	49	80	61	NR	NR	38	12			
17	49	17	62	35	59	45	71	34	86	59	89	68	92	67	94	70	82	49	83	60	NR	NR	49	20			
18	56	21	52	30	58	45	75	43	86	62	85	62	89	67	95	73	80	51	81	66	NR	NR	55	19			
19	60	22	47	14	70	39	82	51	83	59	82	66	89	68	91	70	85	60	83	67	NR	NR	60	32			
20	60	23	59	24	78	40	80	48	72	45	87	69	89	69	94	68	85	50	73	56	NR	NR	64	47			
21	64	28	57	22	86	54	80	53	74	43	87	58	87	61	96	71	83	51	73	39	NR	NR	49	27			
22	60	28	38	15	85	57	75	50	75	43	86	57	89	62	96	68	86	50	77	38	NR	NR	45	29			
23	63	30	40	22	77	48	66	46	80	50	93	68	90	68	96	73	88	53	77	55	NR	NR	56	39			
24	62	27	39	26	56	27	72	51	90	61	93	70	91	71	98	70	86	52	80	53	NR	NR	49	11			
25	49	22	45	23	60	27	69	41	83	58	92	71	92	69	97	75	88	62	78	71	NR	NR	39	21			
26	44	17	47	17	68	32	73	40	77	49	95	75	91	71	93	66	89	62	NR	NR	NR	NR	41	21			
27	56	21	52	14	78	37	83	46	68	59	95	75	85	70	87	60	84	64	67	29	NR	NR	58	22			
28	64	25	57	22	77	49	76	48	63	51	90	62	90	71	77	54	83	48	67	46	NR	NR	71	43			
29	68	28	52	34	82	54	68	35	75	52	88	55	88	69	80	52	82	47	58	31	NR	NR	67	NR			
30	68	31			80	51	72	46	77	57	92	66	86	67	80	47	81	53	59	31	NR	NR	45	22			
31	64	42			84	41			78	49			88	66	81	47			64	26			46	33			
AV.	49	25	50	24	67	38	72	44	77	52	86	62	88	67	90	66	84	55	76	50	NR	NR	52	27			
MEAN	37.5		37.4		52.7		58.9		65.0		74.7		77.9		78.6		70.1		63.1		NR		39.9				
STA AV	51	28	54	31	63	38	73	46	80	54	86	61	89	66	88	65	83	58	73	47	64	38	53	30			

NOTES: Temperature data from U.S. Weather Bureau Station records at Lewiston, North Carolina. STA AV based on 15 yr record period.

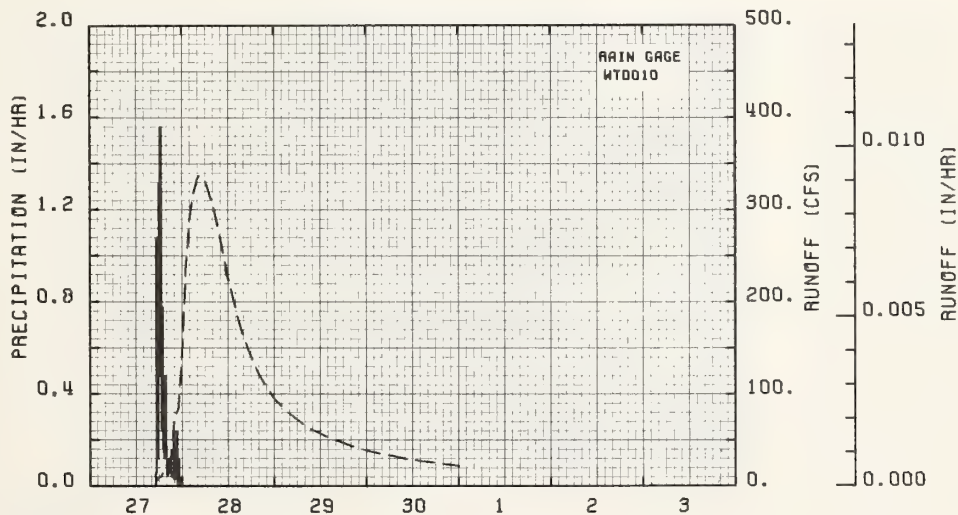
1968 DAILY PRECIPITATION (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A1													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.14	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	1	0.16	0.0	0.0	0.0	0.01	0.23	0.0	0.07	0.0	0.67	0.0			
2	0.0	0.22	0.0	0.0	0.0	0.0	0.22	0.0	0.24	0.0	0.0	0.16	2	0.21	0.0	1.00	0.0	1.17	0.35	0.0	0.0	0.0	0.55	0.0			
3	0.0	0.03	0.0	0.0	0.0	0.0	0.06	1.74	0.0	0.0	0.0	0.13	3	1.51	0.0	0.07	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0			
4	0.24	0.0	0.0	0.0	0.0	0.20	0.0	0.20	0.24	0.0	0.16	0.20	4	0.47	0.0	0.0	0.0	0.36	0.0	0.17	0.27	0.0	0.33	0.0			
5	0.0	0.0	0.0	1.39	0.18	0.0	0.0	0.38	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.18	0.03	0.0	0.07	0.38	0.0	0.0	0.0			
6	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.69	0.0	0.0	6	0.0	0.0	0.12	0.0	0.0	0.0	0.48	0.03	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48	0.0	0.0	7	0.0	0.0	2.53	0.0	0.0	0.40	0.23	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.21	8	0.0	0.0	0.0	0.0	0.70	0.46	0.85	0.47	0.0	0.24	0.0			
9	0.11	0.0	0.0	0.0	0.0	0.0	0.19	0.66	0.09	0.11	0.0	0.50	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.0			
10	0.69	0.0	0.28	0.23	0.0	0.36	0.0	0.10	0.04	0.0	0.79	0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0			
11	0.16	0.0	0.0	0.0	0.01	0.23	0.0	0.07	0.0	0.0	0.67	0.0	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
12	0.21	0.0	1.00	0.0	1.17	0.35	0.0	0.0	0.0	0.0	0.55	0.0	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24			
13	1.51	0.0	0.07	0.0	0.0	0.0	1.13	0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.08			
14	0.47	0.0	0.0	0.0	0.36	0.0	0.17	0.27	0.0	0.33	0.0	0.27	14	0.13	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.22	0.0			
15	0.0	0.0	0.0	0.18	0.03	0.0	0.07	0.38	0.0	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.12	0.0	0.0	0.0	0.48	0.03	0.0	0.0	0.0	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.0	2.53	0.0	0.0	0.40	0.23	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24			
18	0.0	0.0	0.0	0.0	0.70	0.46	0.85	0.47	0.0	0.0	0.24	0.0	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0			
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.08	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.13	0.0	0.0	0.73	0.0	0.0	0.0	0.0	0.0	0.0	0.22	0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0			
27	0.0	0.0	0.0	0.0	1.28	1.99	0.42	0.0	0.16	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	1.28	1.99	0.42	0.0	0.16	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.24	0.0	0.27	28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.24	0.0	0.27			
29	0.0	0.72	0.0	0.22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29	0.0	0.72	0.0	0.22	0.08	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	31	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26			
TOTAL	3.96	0.97	4.74	3.11	4.56	4.56	6.49	1.65	1.24	3.83	2.98	1.88	TOTAL	3.96	0.97	4.74	3.11	4.56	4.56	6.49	1.65	1.24	3.83	2.98	1.88		
STA AV	3.61	3.06	2.90	1.90	3.76	4.70	5.12	4.93	2.35	1.72	1.62	2.59	STA AV	3.61	3.06	2.90	1.90	3.76	4.70	5.12	4.93	2.35	1.72	1.62	2.59		

NOTES: Precipitation values are Thiessen weighted averages of 10 gages. STA AV based on 4 yr record period.

1968 MEAN DAILY DISCHARGE (cfs)													AHOSKIE, NORTH CAROLINA WATERSHED W-A1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	99.0	32.0	50.0	50.0	23.0	29.0	21.0	12.0	6.0	3.8	6.0	9.4	1	99.0	32.0	50.0	50.0	23.0	29.0	21.0	12.0	6.0	3.8	6.0	9.4
2	87.0	29.0	67.0	64.0	20.0	22.0	17.0	11.0	6.2	3.8	6.3	9.8	2	87.0	29.0	67.0	64.0	20.0	22.0	17.0	11.0	6.2	3.8	6.3	9.8
3	74.0	47.0	59.0	52.0	18.0	20.0	17.0	11.0	5.8	3.8	6.0	10.0	3	74.0	47.0	59.0	52.0	18.0	20.0	17.0	11.0	5.8	3.8	6.0	10.0
4	89.0	48.0	46.0	47.0	16.0	18.0	279.0	10.0	5.8	3.8	5.5	12.0	4	89.0	48.0	46.0	47.0	16.0	18.0	279.0	10.0	5.8	3.8	5.5	12.0
5	112.0	36.0	40.0	46.0	16.0	15.0	142.0	10.0	5.6	3.8	5.5	13.0	5	112.0	36.0	40.0	46.0	16.0	15.0	142.0	10.0	5.6	3.8	5.5	13.0
6	85.0	30.0	36.0	521.0	18.0	13.0	145.0	10.0	6.2	3.8	5.8	13.0	6	85.0	30.0	36.0	521.0	18.0	13.0	145.0	10.0	6.2	3.8	5.8	13.0
7	168.0	28.0	30.0	265.0	16.0	12.0	76.0	9.1	8.8	12.0	5.8	12.0	7	168.0	28.0	30.0	265.0	16.0	12.0	76.0	9.1	8.8	12.0	5.8	12.0
8	119.0	26.0	26.0	156.0	14.0	12.0	40.0	8.5	7.0	12.0	6.0	12.0	8	119.0	26.0	26.0	156.0	14.0	12.0	40.0	8.5	7.0	12.0	6.0	12.0
9	84.0	23.0	24.0	107.0	12.0	19.0	28.0	8.5	6.0	8.0	6.0	10.0	9	84.0	23.0	24.0	107.0	12.0	19.0	28.0	8.5	6.0	8.0	6.0	10.0
10	82.0	21.0	24.0	78.0	12.0	24.0	103.0	8.8	6.0	6.3	15.0	10.0	10	82.0	21.0	24.0	78.0	12.0	24.0	103.0	8.8	6.0	6.3	15.0	10.0
11	113.0	18.0	30.0	77.0	11.0	75.0	142.0	8.2	5.6	5.8	17.0	9.8	11	113.0	18.0	30.0	77.0	11.0	75.0	142.0	8.2	5.6	5.8	17.0	9.8
12	95.0	17.0	110.0	80.0	14.0	81.0	483.0	8.2	5.4	5.5	61.0	9.4	12	95.0	17.0	110.0	80.0	14.0	81.0	483.0	8.2	5.4	5.5	61.0	9.4
13	218.0	15.0	310.0	62.0	97.0	136.0	193.0	8.2	5.4	5.5	44.0	9.6	13	218.0	15.0	310.0	62.0	97.0	136.0	193.0	8.2	5.4	5.5	44.0	9.6
14	1700.0	14.0	194.0	49.0	41.0	56.0	90.0	8.2	5.2	5.5	22.0	10.0	14	1700.0	14.0	194.0	49.0	41.0	56.0	90.0	8.2	5.2	5.5	22.0	10.0
15	1000.0	14.0	131.0	44.0	44.0	33.0	50.0	11.0	5.0	8.2	17.0	12.0	15	1000.0	14.0	131.0	44.0	44.0	33.0	50.0	11.0	5.0	8.2	17.0	12.0
16	500.0	14.0	101.0	45.0	43.0	23.0	101.0	11.0	4.9	7.7	15.0	14.0	16	500.0	14.0	101.0	45.0	43.0	23.0	101.0	11.0	4.9	7.7	15.0	14.0
17	294.0	12.0	546.0	37.0	30.0	17.0	91.0	8.8	4.9	5.8	14.0	12.0	17	294.0	12.0	546.0	37.0	30.0	17.0	91.0	8.8	4.9	5.8	14.0	12.0
18	182.0	12.0	1460.0	32.0	28.0	40.0	42.0	8.0	4.7	5.5	13.0	11.0	18	182.0	12.0	1460.0	32.0	28.0	40.0	42.0	8.0	4.7	5.5	13.0	11.0
19	142.0	11.0	988.0	28.0	88.0	70.0	30.0	12.0	4.7	6.8	13.0	10.0	19	142.0	11.0	988.0	28.0	88.0	70.0	30.0	12.0	4.7	6.8	13.0	10.0
20	111.0	11.0	324.0	26.0	46.0	34.0	144.0	12.0	4.7	24.0	14.0	9.6	20	111.0	11.0	324.0	26.0	46.0	34.0	144.0	12.0	4.7	24.0	14.0	9.6
21	91.0	11.0	196.0	23.0	28.0	23.0	67.0	7.7	4.6	17.0	13.0	10.0	21	91.0	11.0	196.0	23.0	28.0	23.0	67.0	7.7	4.6	17.0	13.0	10.0
22	79.0	10.0	134.0	22.0	20.0	15.0	33.0	6.8	4.6	12.0	12.0	11.0	22	79.0	10.0	134.0	22.0	20.0	15.0	33.0	6.8	4.6	12.0	12.0	11.0
23	68.0	9.6	122.0	20.0	17.0	12.0	23.0	6.6	4.5	9.1	11.0	13.0	23	68.0	9.6	122.0	20.0	17.0	12.0	23.0	6.6	4.5	9.1	11.0	13.0
24	59.0	9.2	112.0	26.0	14.0	10.0	18.0	6.4	4.5	8.0	11.0	15.0	24	59.0	9.2	112.0	26.0	14.0	10.0	18.0	6.4	4.5	8.0	11.0	15.0
25	53.0	8.5	84.0	70.0	12.0	9.1	16.0	6.2	4.3	7.1	11.0	14.0	25	53.0	8.5	84.0	70.0	12.0	9.1	16.0	6.2	4.3	7.1	11.0	14.0
26	48.0	7.3	68.0	49.0	12.0	8.2	15.0	6.1	4.2	6.6	12.0	12.0	26	48.0	7.3	68.0	49.0	12.0	8.2	15.0	6.1	4.2	6.6	12.0	12.0
27	44.0	9.6	59.0	36.0	61.0	14.0	16.0	6.0	4.1	6.6	11.0	11.0	27	44.0	9.6	59.0	36.0	61.0	14.0	16.0	6.0	4.1	6.6	11.0	11.0
28	44.0	10.0	50.0	28.0	147.0	219.0	23.0	6.0	4.1	6.6	10.0	12.0	28	44.0	10.0	50.0	28.0	147.0	219.0	23.0	6.0	4.1	6.6	10.0	12.0
29	44.0	14.0	44.0	23.0	100.0	61.0	16.0	6.2	4.0	6.8	10.0	15.0	29	44.0	14.0	44.0	23.0	100.0	61.0	16.0	6.2	4.0	6.8	10.0	15.0
30	42.0		40.0	24.0	67.0	29.0	14.0	6.0	3.9	6.6	9.8	14.0	30	42.0		40.0	24.0	67.0	29.0	14.0	6.0	3.9	6.6	9.8	14.0
31	40.0		37.0		42.0		13.0	6.0		6.3		14.0	31	40.0		37.0		42.0		13.0	6.0		6.3		14.0
MEAN	192.45	18.87	178.77	72.90	36.35	38.31	78.97	8.53	5.22	7.55	13.62	11.60	MEAN	192.45	18.87	178.77	72.90	36.35	38.31	78.97	8.53	5.22	7.55	13.62	11.60
INCHES	3.893	0.357	3.616	1.427	0.735	0.750	1.597	0.173	0.102	0.153	0.267	0.235	INCHES	3.893	0.357	3.616	1.427	0.735	0.750	1.597	0.173	0.102	0.153	0.267	0.235
STA AV	2.158	1.994	2.599	0.709	0.656	0.877	1.202	1.168	0.281	0.151	0.164	0.584	STA AV	2.158	1.994	2.599	0.709	0.656	0.877	1.202	1.168	0.281	0.151	0.164	0.584

1968 SELECTED RUNOFF EVENT			AHOSKIE, NORTH CAROLINA WATERSHED W-A1								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 27 - 30, 1968											
RG WTD010			RG WTD010								
6-27	0.0	0.003	6-27	1700	0.0	0.0	6-27	1730	6.90	0.0	
				1720	0.0600	0.02		1800	10.50	0.0001	
				1730	1.0800	0.20		1830	11.00	0.0002	
				1735	0.1200	0.21		1930	22.80	0.0007	
				1745	0.4200	0.28		2030	22.80	0.0013	
WATERSHED CONDITIONS: Approximate land use 65% in woodland, 30% in row crops, 2% in pasture, 3% misc. (roads, homesites, and urban areas).											
				1800	0.4800	0.40		2100	30.50	0.0017	
				1815	1.3200	0.73		2200	74.20	0.0031	
				1825	1.0201	0.90		2300	85.90	0.0053	
				1835	1.5600	1.16		2400	143.80	0.0084	
				1845	0.2400	1.20	6-28	100	235.00	0.0135	
				1855	0.7800	1.33		200	291.40	0.0207	
				1900	0.4799	1.37		300	318.00	0.0290	
				1915	0.1600	1.41		400	333.40	0.0379	
				1920	0.1200	1.42		430	337.00	0.0425	
				1930	0.3000	1.47		600	331.00	0.0561	
				1940	0.4800	1.55		800	305.80	0.0734	
				1950	0.1800	1.58		1000	268.60	0.0890	
				1955	0.1200	1.59		1200	224.20	0.1024	
				2020	0.0480	1.61		1500	175.00	0.1187	
				2030	0.1200	1.63		1700	149.30	0.1275	
				2040	0.0600	1.64		2000	120.00	0.1385	
				2050	0.0600	1.65		2400	94.00	0.1501	
				2100	0.1200	1.67	6-29	400	77.80	0.1594	
				2110	0.0600	1.68		800	64.30	0.1671	
				2140	0.0400	1.70		1400	52.40	0.1766	
				2145	0.2400	1.72		2000	42.80	0.1844	
				2205	0.0300	1.73		2400	38.00	0.1888	
				2220	0.0400	1.74	6-30	1200	27.70	0.1995	
				2230	0.1800	1.77		2400	21.60	0.2075	
				2240	0.2400	1.81					
				2300	0.0	1.81					
				2310	0.1200	1.83					
				2330	0.0	1.83					
				2345	0.0400	1.84					

NOTES: To convert CFS to IN/HR, multiply by 0.00002719. Precipitation is Thiessen average of 10 rain gages.



EVENT OF JUNE 27 - 30, 1968
AHOSKIE, NORTH CAROLINA WATERSHED W-A1

AHOSKIE, NORTH CAROLINA WATERSHED W-A2

LOCATION: Hertford, Bertie, and Northampton Counties, North Carolina; approximately 5 miles northwest of Aulander; Chowan River Basin.

AREA: 15360.00 acres 24.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A2															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	4.53	0.93	4.46	3.18	4.26	5.45	5.64	1.83	0.68	4.04	2.91	1.61	39.52															
	O	3.479	0.404	2.758	1.283	0.485	1.495	2.117	0.127	0.061	0.253	0.193	0.182	12.837															
STA AV	P	3.61	2.96	2.80	1.92	3.47	5.01	4.52	4.89	2.17	1.83	1.65	2.53	37.34															
	O	1.830	1.939	2.062	0.636	0.466	0.981	1.024	0.902	0.188	0.146	0.123	0.563	10.859															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		1-14	0.050	1-14	0.050	1-14	0.100	1-14	0.310	1-14	0.610	1-14	1.150	1-13	1.800	1-12	2.320												
MAXIMUMS FOR PERIOD OF RECORD																													
		10- 5	0.080	10- 5	0.080	10- 5	0.170	10- 5	0.500	10- 5	0.970	10- 5	1.640	10- 4	2.370	10- 3	3.060												
		1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964												

NOTES: Watershed conditions: Woodland, 75%; row crops, 22%; pasture, 2%; roads & homesites, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-68 data. Precipitation Thiessen weighted using 5 gages. For temperature information, see table of maximum and minimum values included with data for Watershed 75.001. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968 DAILY PRECIPITATION (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A2													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.17	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	2	0.0	0.24	0.0	0.0	0.0	0.25	0.0	0.0	0.05	0.0	0.0	0.14														
	3	0.0	0.04	0.0	0.0	0.0	0.06	2.23	0.0	0.0	0.0	0.0	0.15														
	4	0.15	0.0	0.0	0.0	0.0	0.0	0.22	0.34	0.0	0.11	0.0	0.15														
	5	0.0	0.0	0.0	1.41	0.09	0.0	0.59	0.0	0.0	0.0	0.0	0.0														
	6	0.51	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.33	0.0	0.0	0.0														
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53	0.0	0.04														
	8	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.21														
	9	0.12	0.0	0.0	0.0	0.0	0.29	0.17	0.0	0.12	0.0	0.53	0.0														
	10	0.74	0.0	0.28	0.24	0.0	0.45	0.0	0.07	0.09	0.0	0.80	0.0														
	11	0.11	0.0	0.0	0.0	0.0	0.41	0.0	0.09	0.0	0.0	0.70	0.0														
	12	0.17	0.0	0.97	0.0	1.01	0.56	0.0	0.0	0.0	0.0	0.51	0.0														
	13	1.96	0.0	0.06	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0														
	14	0.64	0.0	0.0	0.0	0.38	0.0	0.20	0.17	0.0	0.39	0.0	0.24														
	15	0.0	0.0	0.0	0.19	0.03	0.0	0.0	0.65	0.0	0.0	0.0	0.0														
	16	0.0	0.0	0.14	0.0	0.0	0.0	0.20	0.05	0.0	0.0	0.0	0.0														
	17	0.0	0.0	2.27	0.0	0.0	0.49	0.41	0.0	0.0	0.0	0.0	0.0														
	18	0.0	0.0	0.0	0.0	0.69	0.46	0.74	0.46	0.0	0.0	0.20	0.0														
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0														
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0														
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21														
	23	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.10														
	24	0.13	0.0	0.0	0.79	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0														
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	26	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	27	0.0	0.0	0.0	0.0	1.11	2.18	0.22	0.0	0.09	0.0	0.0	0.0														
	28	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.22	0.0	0.19														
	29	0.0	0.65	0.0	0.21	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	30	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	31	0.0		0.29		0.0		0.0	0.0		0.0		0.18														
TOTAL	4.53	0.93	4.46	3.18	4.26	5.45	5.64	1.83	0.68	4.04	2.91	1.61															
STA AV	3.61	2.96	2.80	1.92	3.47	5.01	4.52	4.89	2.17	1.83	1.65	2.53															

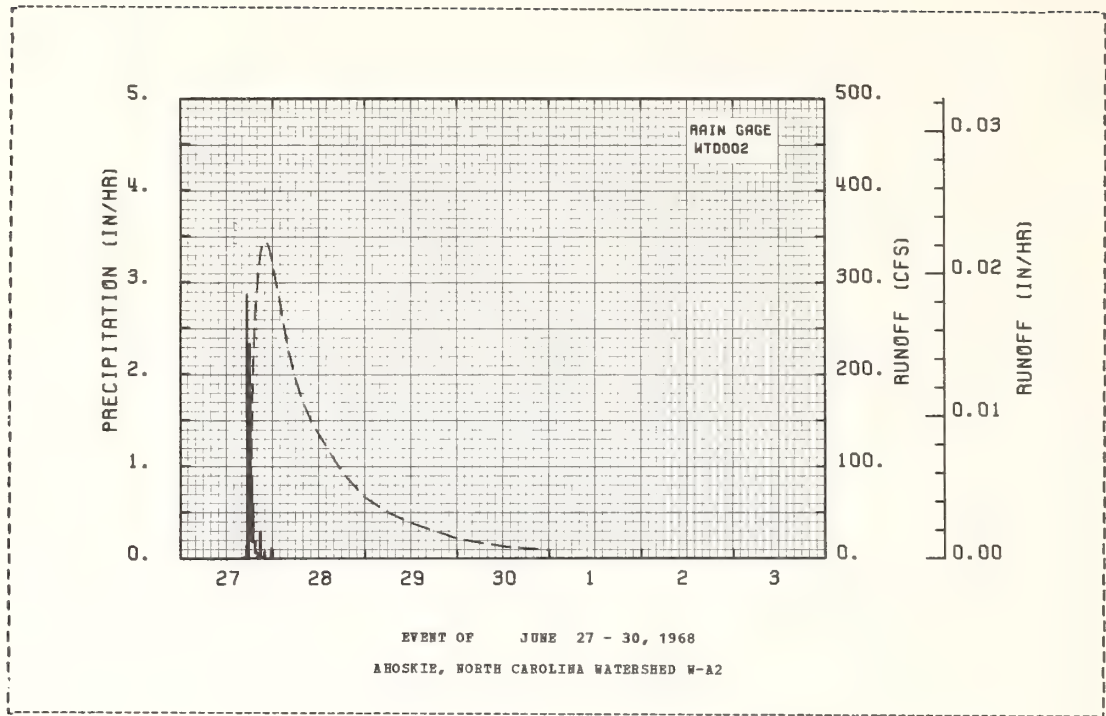
NOTES: Precipitation values are Thiessen weighted averages of 5 gages. STA AV based on 4 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) AHOSKIE, NORTH CAROLINA WATERSHED W-A2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	40.00	11.00	24.00	17.00	8.00	4.90	6.60	3.00	1.60	1.00	1.40	4.10
2	33.00	11.00	26.00	20.00	6.60	3.60	4.40	2.80	1.60	1.00	1.40	4.20
3	27.00	20.00	21.00	16.00	5.70	4.10	96.00	2.80	1.60	1.00	1.20	4.60
4	54.00	17.00	16.00	14.00	5.10	3.40	259.00	3.80	1.60	1.00	1.20	6.10
5	40.00	13.00	14.00	18.00	5.10	2.80	163.00	4.20	1.40	1.00	1.20	4.80
6	30.00	12.00	12.00	203.00	4.80	2.40	146.00	3.00	1.60	1.20	1.20	3.00
7	68.00	12.00	10.00	93.00	4.20	2.30	74.00	2.30	1.70	10.00	1.20	3.00
8	37.00	11.00	8.90	54.00	3.80	9.60	38.00	2.30	1.40	8.40	1.20	2.80
9	26.00	9.80	8.40	36.00	3.60	11.00	22.00	2.20	1.40	3.30	1.20	3.10
10	30.00	9.60	8.70	27.00	3.50	13.00	19.00	2.20	1.40	2.00	1.10	3.00
11	38.00	8.80	14.00	34.00	3.50	106.00	84.00	2.20	1.40	1.60	2.80	3.10
12	30.00	8.20	50.00	35.00	9.40	128.00	148.00	2.20	1.30	1.40	44.00	3.00
13	116.00	7.90	93.00	25.00	17.00	131.00	74.00	2.20	1.30	1.30	12.00	3.00
14	743.00	7.70	58.00	19.00	5.10	50.00	38.00	2.20	1.30	21.00	3.10	3.90
15	410.00	7.50	40.00	18.00	10.00	20.00	21.00	2.20	1.30	7.80	1.30	4.40
16	142.00	7.30	31.00	18.00	7.20	10.00	14.00	4.60	1.30	2.50	1.20	3.30
17	74.00	7.10	408.00	14.00	5.10	14.00	14.00	3.60	1.30	1.60	1.70	3.00
18	50.00	6.90	418.00	12.00	16.00	61.00	14.00	2.20	1.30	1.40	2.20	2.80
19	40.00	6.60	141.00	9.80	28.00	53.00	11.00	12.00	1.30	32.00	4.60	2.80
20	32.00	6.80	81.00	8.50	8.00	26.00	49.00	3.10	1.20	37.00	3.80	2.80
21	28.00	6.80	56.00	7.50	4.00	12.00	18.00	1.90	1.20	8.00	3.40	2.80
22	23.00	6.10	40.00	6.70	2.90	6.40	8.40	1.70	1.20	3.10	3.30	2.70
23	20.00	6.30	45.00	6.20	2.50	4.80	6.30	1.60	1.20	2.00	3.40	5.00
24	19.00	6.30	39.00	9.50	2.30	4.10	4.80	1.40	1.20	2.00	3.60	4.60
25	18.00	6.30	28.00	35.00	2.10	3.50	4.10	1.40	1.00	2.00	4.10	3.90
26	15.00	6.00	22.00	24.00	2.30	2.90	3.90	1.40	1.00	2.00	3.60	5.00
27	14.00	6.00	18.00	17.00	30.00	74.00	7.40	1.40	1.00	1.20	3.40	4.40
28	12.00	6.10	15.00	12.00	48.00	150.00	7.40	1.40	1.00	1.20	3.40	6.50
29	12.00	9.80	13.00	8.90	32.00	38.00	3.90	1.60	1.00	1.70	3.30	5.00
30	12.00		11.00	10.00	18.00	13.00	3.40	1.40	1.00	1.20	3.90	3.60
31	12.00		10.00		9.40		3.30	1.40		1.20		3.40
MEAN	72.419	8.997	57.419	27.603	10.103	32.160	44.061	2.635	1.303	5.261	4.147	3.797
INCHES	3.479	0.404	2.758	1.283	0.485	1.495	2.117	0.127	0.061	0.253	0.193	0.182
STA AV	1.830	1.939	2.062	0.636	0.466	0.981	1.024	0.902	0.188	0.146	0.123	0.563

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0015496. Runoff data furnished by U.S. Geological Survey. Records are good. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT AHOSKIE, NORTH CAROLINA WATERSHED W-A2											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 27 - 30, 1968											
RG WTD002			RG WTD002								
6-27	0.0	0.003	6-27	1700	0.0	0.0	6-27	1630	2.50	0.0	
				1720	0.1500	0.05		1700	3.10	0.0001	
				1725	2.8802	0.29		1730	7.00	0.0003	
				1730	1.9198	0.45		1800	19.30	0.0007	
				1735	0.1200	0.46		1830	124.20	0.0030	
WATERSHED CONDITIONS:				1745	0.0	0.46		1900	214.40	0.0085	
Watershed condition:				1750	1.3201	0.57		1930	264.80	0.0162	
Approximate land use 75%				1755	0.6000	0.62		2000	296.80	0.0253	
in woodland, 22% in row				1800	1.3198	0.73		2030	321.60	0.0353	
crops, 2% in pasture, 1%				1810	2.3401	1.12		2100	336.00	0.0459	
misc. (roads and homesites).				1815	1.6798	1.26		2130	343.20	0.0569	
				1825	0.4200	1.33		2200	345.00	0.0680	
				1835	0.9000	1.48		2230	343.20	0.0791	
				1845	0.1800	1.51		2300	338.70	0.0901	
				1900	0.6000	1.66		2400	321.60	0.1114	
				1920	0.1800	1.72	6-28	100	298.40	0.1314	
				1930	0.0600	1.73		400	229.60	0.1825	
				1955	0.0720	1.76		600	193.50	0.2098	
				2030	0.0	1.76		800	168.30	0.2332	
				2040	0.0600	1.77		1000	148.70	0.2537	
				2050	0.3000	1.82		1800	93.00	0.3161	
				2145	0.0218	1.84		2400	66.00	0.3469	
				2200	0.0800	1.86	6-29	600	49.50	0.3693	
				2330	0.0	1.86		1200	38.00	0.3862	
				2345	0.1200	1.89		2400	21.40	0.4092	
							6-30	1200	12.80	0.4224	
								2400	8.70	0.4307	

NOTES: To convert CFS to IN/HR, multiply by 0.00006457. Precipitation is Thiessen average of 2 rain gages.



AHOSKIE, NORTH CAROLINA WATERSHED W-A3

LOCATION: Northampton County, North Carolina, approximately 3 miles southeast of Rich Square; Chowan River Basin.

AREA: 2368.00 acres 3.70 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A3															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	4.37	1.06	3.66	3.58	3.80	5.18	5.48	1.87	0.58	4.44	2.95	1.84	38.81															
	O	3.564	0.280	1.908	1.465	0.150	0.367	0.776	0.009	0.0	0.022	0.047	0.016	8.605															
STA AV	P	3.77	3.10	2.66	2.13	3.43	5.05	3.97	5.07	2.05	2.02	1.72	2.69	37.64															
	O	1.266	1.390	1.362	0.486	0.458	0.302	0.314	0.460	0.060	0.043	0.034	0.356	6.531															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days													
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.												
1968		1-14	0.080	1-14	0.080	1-14	0.170	1-14	0.490	1-13	0.880	1-13	1.290	1-13	1.670	1-13	2.370												
MAXIMUMS FOR PERIOD OF RECORD																													
		10- 5	0.120	10- 5	0.120	10- 5	0.240	10- 5	0.670	10- 5	1.240	10- 5	1.880	10- 4	2.570	10- 4	3.490												
		1964		1964		1964		1964		1964		1964		1964		1964													

NOTES: Watershed conditions: Woodland, 88%; row crops, 10%; homesites, pastures, and roads, 2%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-68 data. Precipitation Thiessen weighted using 2 gages. For temperature information, see table of maximum and minimum values included with data for Watershed 75.001. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968		DAILY PRECIPITATION (inches)					AHOSKIE, NORTH CAROLINA WATERSHED W-A3							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.17	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
	2	0.0	0.33	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.16	
	3	0.0	0.0	0.0	0.0	0.0	0.13	2.39	0.0	0.0	0.0	0.0	0.15	
	4	0.19	0.0	0.0	0.0	0.15	0.0	0.19	0.56	0.0	0.11	0.0	0.12	
	5	0.0	0.0	0.0	1.47	0.09	0.0	0.69	0.0	0.0	0.0	0.0	0.0	
	6	0.51	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.22	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.0	0.05	
	8	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.21	
	9	0.12	0.0	0.0	0.0	0.0	0.49	0.11	0.0	0.08	0.0	0.57	0.0	
	10	0.76	0.0	0.31	0.26	0.0	0.20	0.0	0.09	0.16	0.0	0.79	0.0	
	11	0.10	0.0	0.0	0.0	0.0	0.34	0.0	0.13	0.0	0.0	0.69	0.0	
	12	0.15	0.0	0.78	0.0	0.51	0.51	0.0	0.0	0.0	0.0	0.45	0.0	
	13	1.98	0.0	0.02	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	
	14	0.40	0.0	0.0	0.0	0.42	0.0	0.19	0.13	0.0	0.20	0.0	0.31	
	15	0.0	0.0	0.0	0.27	0.04	0.0	0.0	0.87	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.13	0.0	0.0	0.0	0.03	0.09	0.0	0.0	0.0	0.0	
	17	0.0	0.0	1.81	0.0	0.0	0.51	0.70	0.0	0.0	0.0	0.0	0.0	
	18	0.0	0.0	0.0	0.0	0.66	0.38	0.56	0.0	0.0	0.0	0.26	0.0	
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.83	0.0	0.0	
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	
	23	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.11	
	24	0.16	0.0	0.0	1.04	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	27	0.0	0.0	0.0	0.0	0.99	2.15	0.10	0.0	0.12	0.0	0.0	0.0	
	28	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.32	0.0	0.22	
	29	0.0	0.73	0.0	0.20	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.0		0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	31	0.0		0.22		0.0		0.0	0.0		0.0		0.23	
TOTAL		4.37	1.06	3.66	3.58	3.80	5.18	5.48	1.87	0.58	4.44	2.95	1.84	
STA AV		3.77	3.10	2.66	2.13	3.43	5.05	3.97	5.07	2.05	2.02	1.72	2.69	

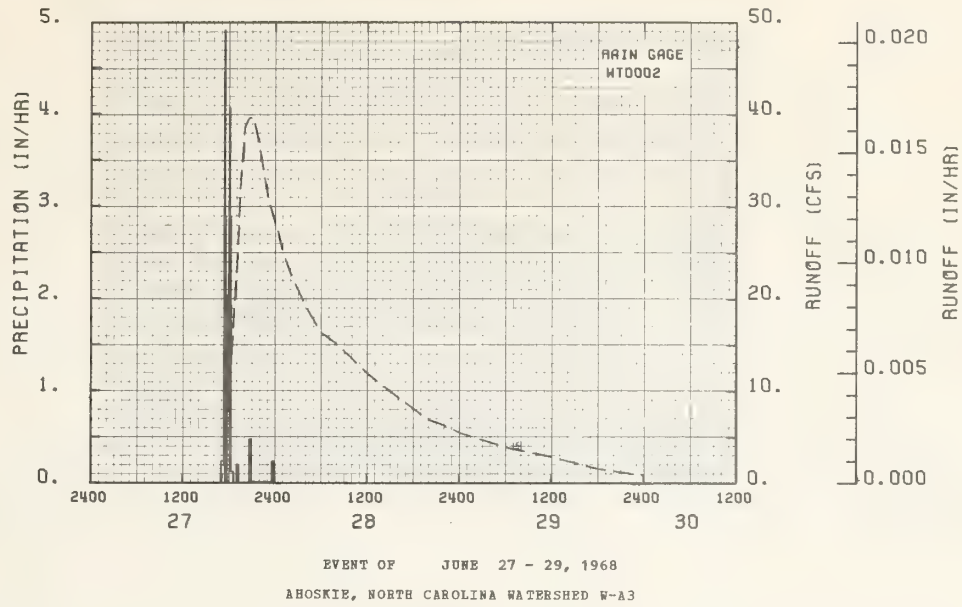
NOTES: Precipitation values are Thiessen weighted averages of 2 gages. STA AV based on 4 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) AHOSKIE, NORTH CAROLINA WATERSHED W-A3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.60	1.70	3.00	2.40	1.90	0.0	0.0	0.0	0.0	0.0	0.01	0.02
2	5.60	1.90	3.50	2.50	1.40	0.0	0.0	0.0	0.0	0.0	0.0	0.02
3	4.40	3.60	2.80	1.80	1.00	0.0	7.20	0.0	0.0	0.0	0.0	0.02
4	6.70	2.70	2.20	1.60	0.70	0.0	16.00	0.10	0.0	0.0	0.0	0.04
5	6.00	1.80	1.80	2.90	0.80	0.0	16.00	0.10	0.0	0.0	0.0	0.04
6	4.80	1.60	1.50	27.00	0.60	0.0	15.00	0.0	0.0	0.0	0.0	0.03
7	9.60	1.40	1.20	14.00	0.40	0.0	5.70	0.0	0.0	0.21	0.0	0.03
8	5.30	1.30	1.00	9.20	0.30	0.0	1.90	0.0	0.0	0.07	0.01	0.04
9	1.50	1.00	1.00	6.50	0.20	0.20	0.80	0.0	0.0	0.01	0.01	0.03
10	4.50	1.00	1.00	4.70	0.20	0.20	0.70	0.0	0.0	0.01	1.20	0.03
11	5.90	0.80	1.80	6.40	0.10	2.50	0.60	0.0	0.0	0.01	0.22	0.03
12	4.10	0.80	5.40	6.90	0.30	2.80	3.30	0.0	0.0	0.01	2.20	0.03
13	20.00	0.70	11.00	4.80	0.20	2.50	1.80	0.0	0.0	0.01	0.55	0.03
14	125.00	0.60	7.70	3.60	0.10	0.40	0.80	0.0	0.0	0.01	0.07	0.30
15	38.00	0.60	5.80	3.50	0.40	0.0	0.40	0.10	0.0	0.01	0.04	0.08
16	23.00	0.60	4.90	3.20	0.30	0.0	0.20	0.60	0.0	0.01	0.02	0.04
17	15.00	0.50	31.00	2.30	0.20	0.30	0.70	0.0	0.0	0.01	0.02	0.03
18	11.00	0.50	34.00	1.80	0.40	2.00	0.70	0.0	0.0	0.01	0.03	0.03
19	9.10	0.40	18.00	1.40	0.50	1.50	0.50	0.0	0.0	0.72	0.06	0.04
20	7.40	0.40	12.00	1.10	0.20	0.50	3.60	0.0	0.0	0.87	0.04	0.04
21	6.10	0.40	8.70	1.00	0.05	0.10	0.70	0.0	0.0	0.07	0.03	0.03
22	5.00	0.40	6.30	0.80	0.0	0.0	0.30	0.0	0.0	0.02	0.02	0.04
23	4.20	0.40	6.00	0.70	0.0	0.0	0.10	0.0	0.0	0.02	0.02	0.08
24	3.80	0.40	4.80	3.40	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.06
25	3.40	0.40	3.50	12.00	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.04
26	3.00	0.40	2.70	8.00	0.0	0.0	0.0	0.0	0.0	0.01	0.03	0.04
27	2.80	0.30	2.10	5.10	1.10	8.30	0.05	0.0	0.0	0.01	0.02	0.04
28	3.00	0.40	1.70	3.00	1.30	12.00	0.05	0.0	0.0	0.01	0.02	0.07
29	2.70	0.90	1.30	1.90	1.30	2.80	0.0	0.0	0.0	0.01	0.02	0.08
30	2.30		1.10	2.30	0.80	0.40	0.05	0.0	0.0	0.02	0.02	0.06
31	1.80		1.00		0.20		0.05	0.0		0.01		0.06
MEAN	11.439	0.962	6.123	4.860	0.482	1.217	2.490	0.029	0.0	0.070	0.157	0.050
INCHES	3.564	0.280	1.908	1.465	0.150	0.367	0.776	0.009	0.0	0.022	0.047	0.016
STA AV	1.266	1.390	1.362	0.486	0.458	0.302	0.314	0.460	0.060	0.043	0.034	0.356

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0100514. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT			AHOSKIE, NORTH CAROLINA WATERSHED W-A3								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 27 - 29, 1968											
6-27	RG WTD002		6-27	RG WTD002			6-27				
	0.0	0.0		1700	0.0	0.0		600	0.0	0.0	
				1720	0.2400	0.08		1630	0.0	0.0	
				1725	4.9203	0.49		1700	0.10	0.0	
				1730	2.8796	0.73		1730	3.00	0.0003	
				1745	0.0	0.73		1800	10.40	0.0017	
WATERSHED CONDITIONS:				1750	2.0401	0.90		1830	16.20	0.0045	
Watershed conditions:				1755	0.9601	0.98		1900	23.60	0.0087	
Approximate land use -				1800	2.2797	1.17		1930	32.80	0.0146	
89% in woodland, 10% in				1805	4.0803	1.51		2000	38.60	0.0221	
row crops, 2% misc.				1810	2.8802	1.75		2030	39.60	0.0303	
(homesites, pasture, and											
roads).				1815	1.9198	1.91		2100	39.60	0.0386	
				1835	0.1200	1.95		2130	38.20	0.0467	
				1900	0.0	1.95		2300	31.00	0.0684	
				1915	0.2000	2.00		2400	28.00	0.0808	
				2040	0.0	2.00	6-28	100	25.00	0.0919	
				2050	0.4800	2.08		200	22.60	0.1019	
				2335	0.0109	2.11		400	19.00	0.1193	
				2345	0.2400	2.15		600	16.20	0.1340	
								800	15.00	0.1471	
								1200	11.80	0.1695	
								1600	9.20	0.1871	
								2000	6.80	0.2005	
								2200	6.20	0.2059	
								2400	5.40	0.2108	
							6-29	600	3.80	0.2224	
								1200	2.80	0.2307	
								1800	1.50	0.2361	
								2400	0.80	0.2390	

NOTES: To convert CFS to IN/HR, multiply by 0.00041881. Precipitation is Thiessen average of 2 rain gages.



AHOSKIE, NORTH CAROLINA WATERSHED W-A4

LOCATION: Hertford County, North Carolina; approximately 2 miles southwest of Ahoskie; Chowan River Basin.

AREA: 1664.00 acres 2.60 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														AHOSKIE, NORTH CAROLINA WATERSHED W-A4															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual															
1968	P	2.70	1.08	4.97	3.18	4.94	4.12	7.11	1.20	2.07	3.37	2.85	2.00	39.59															
	O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
STA AV	P	3.35	3.11	3.01	2.09	4.27	4.01	5.15	5.32	2.80	1.47	1.53	2.63	38.73															
	O	0.472	1.193	0.878	0.135	0.427	0.202	0.255	1.237	0.173	0.045	0.045	0.247	5.310															
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																													
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.										
1968		1-14	0.130	1-14	0.130	1-14	0.260	1-14	0.730	1-13	1.200	1-13	1.660	1-13	2.010	1-13	2.490												
MAXIMUMS FOR PERIOD OF RECORD																													
		5-30	0.160	5-30	0.160	5-30	0.320	5-29	0.820	1-13	1.200	1-13	1.660	1-13	2.010	8-21	3.480												
		1966		1966		1966		1966		1968		1968		1968		1968													

NOTES: Watershed conditions: Woodland, 60%; row crops, 39%; homesites, pastures, and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 75.1-8. Records of precipitation and runoff began in 1964. STA AV computed on 1965-68 data. Precipitation Thiessen weighted using 2 gages. For temperature information, see table of maximum and minimum values included for Watershed 75.001. For long-time precipitation records, see U.S. Weather Bureau records at Scotland Neck, North Carolina.

1968		DAILY PRECIPITATION (inches)					AHOSKIE, NORTH CAROLINA WATERSHED W-A4							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.15	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
	2	0.0	0.21	0.0	0.0	0.0	0.20	0.0	0.0	0.55	0.0	0.0	0.15	
	3	0.0	0.0	0.0	0.0	0.0	0.04	0.77	0.0	0.0	0.0	0.0	0.12	
	4	0.34	0.0	0.0	0.0	0.30	0.0	0.11	0.08	0.0	0.22	0.0	0.23	
	5	0.0	0.0	0.0	1.38	0.21	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
	6	0.43	0.0	0.0	0.04	0.04	0.0	0.17	0.0	1.06	0.0	0.0	0.0	
	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.01	
	8	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.24	
	9	0.06	0.0	0.0	0.0	0.0	0.19	0.96	0.19	0.18	0.0	0.45	0.0	
	10	0.22	0.0	0.32	0.22	0.0	0.27	0.0	0.12	0.0	0.0	0.82	0.0	
	11	0.20	0.0	0.0	0.0	0.0	0.04	0.0	0.05	0.0	0.0	0.62	0.0	
	12	0.70	0.0	1.05	0.0	1.13	0.15	0.0	0.0	0.0	0.0	0.54	0.0	
	13	1.04	0.0	0.08	0.0	0.37	0.0	1.40	0.0	0.0	0.0	0.0	0.0	
	14	0.07	0.0	0.0	0.0	0.0	0.0	0.39	0.47	0.0	0.01	0.0	0.32	
	15	0.0	0.0	0.0	0.23	0.02	0.0	0.29	0.07	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.12	0.0	0.0	0.0	1.09	0.0	0.0	0.0	0.0	0.0	
	17	0.0	0.0	2.52	0.0	0.0	0.34	0.09	0.0	0.0	0.0	0.0	0.0	
	18	0.0	0.0	0.0	0.0	0.87	0.59	0.84	0.22	0.0	0.0	0.15	0.0	
	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	
	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	
	23	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	
	24	0.14	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
	26	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	27	0.0	0.0	0.0	0.0	1.70	1.87	0.70	0.0	0.28	0.0	0.0	0.0	
	28	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.21	0.0	0.27	
	29	0.0	0.87	0.0	0.26	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	31	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	
TOTAL		2.70	1.08	4.97	3.18	4.94	4.12	7.11	1.20	2.07	3.37	2.85	2.00	
STA AV		3.35	3.11	3.01	2.09	4.27	4.01	5.15	5.32	2.80	1.47	1.53	2.63	

NOTES: Precipitation values are Thiessen weighted averages of 2 gages. STA AV based on 4 yr record period.

1968 MEAN DAILY DISCHARGE (cfs) AHOSKIE, NORTH CAROLINA WATERSHED W-A4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.472	1.193	0.878	0.135	0.427	0.202	0.255	1.237	0.173	0.045	0.045	0.247

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.0143039. Runoff data furnished by U. S. Geological Survey. Records are good. STA AV based on 4 yr record period.

1968 SELECTED RUNOFF EVENT AHOSKIE, NORTH CAROLINA WATERSHED W-A4											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 27 - 29, 1968											
6-27	RG WTD002 0.0	0.000	6-27	RG WTD002 1920	0.0	0.0	6-27	600	0.20	0.0	
				1930	1.6799	0.28		1745	0.20	0.0014	
				1940	2.2801	0.66		1800	0.90	0.0015	
				1950	1.0200	0.83		1815	2.00	0.0017	
				1955	0.3600	0.86		1900	1.40	0.0025	
WATERSHED CONDITIONS:				2005	0.1200	0.88		1945	7.00	0.0044	
Watershed conditions:				2020	0.2400	0.94		2045	5.20	0.0080	
Approximate land use -				2030	0.6600	1.05		2100	9.00	0.0091	
60% in woodland, 39% in				2115	0.0667	1.10		2115	10.60	0.0106	
row crops, 1% misc.				2135	0.1500	1.15		2130	14.50	0.0125	
(homesites, pastures,											
and roads).				2200	0.0	1.15		2200	44.60	0.0213	
				2205	0.3600	1.18		2215	47.30	0.0281	
				2215	0.0	1.18		2230	44.60	0.0349	
				2220	0.4800	1.22		2330	25.90	0.0559	
				2230	1.0800	1.40		2400	20.50	0.0628	
				2235	2.6402	1.62	6-28	200	13.30	0.0829	
				2240	0.9601	1.70		400	8.40	0.0958	
				2300	0.0	1.70		600	6.40	0.1046	
				2310	0.7800	1.83		800	4.60	0.1112	
								1000	3.10	0.1158	
								1200	2.50	0.1191	
								1600	1.50	0.1239	
								1900	1.00	0.1261	
								2400	0.80	0.1288	
							6-29	1200	0.50	0.1334	
								2400	0.30	0.1363	

NOTES: To convert CPS to IN/HR, multiply by 0.00059599. Precipitation is Thiessen average of 2 rain gages.

